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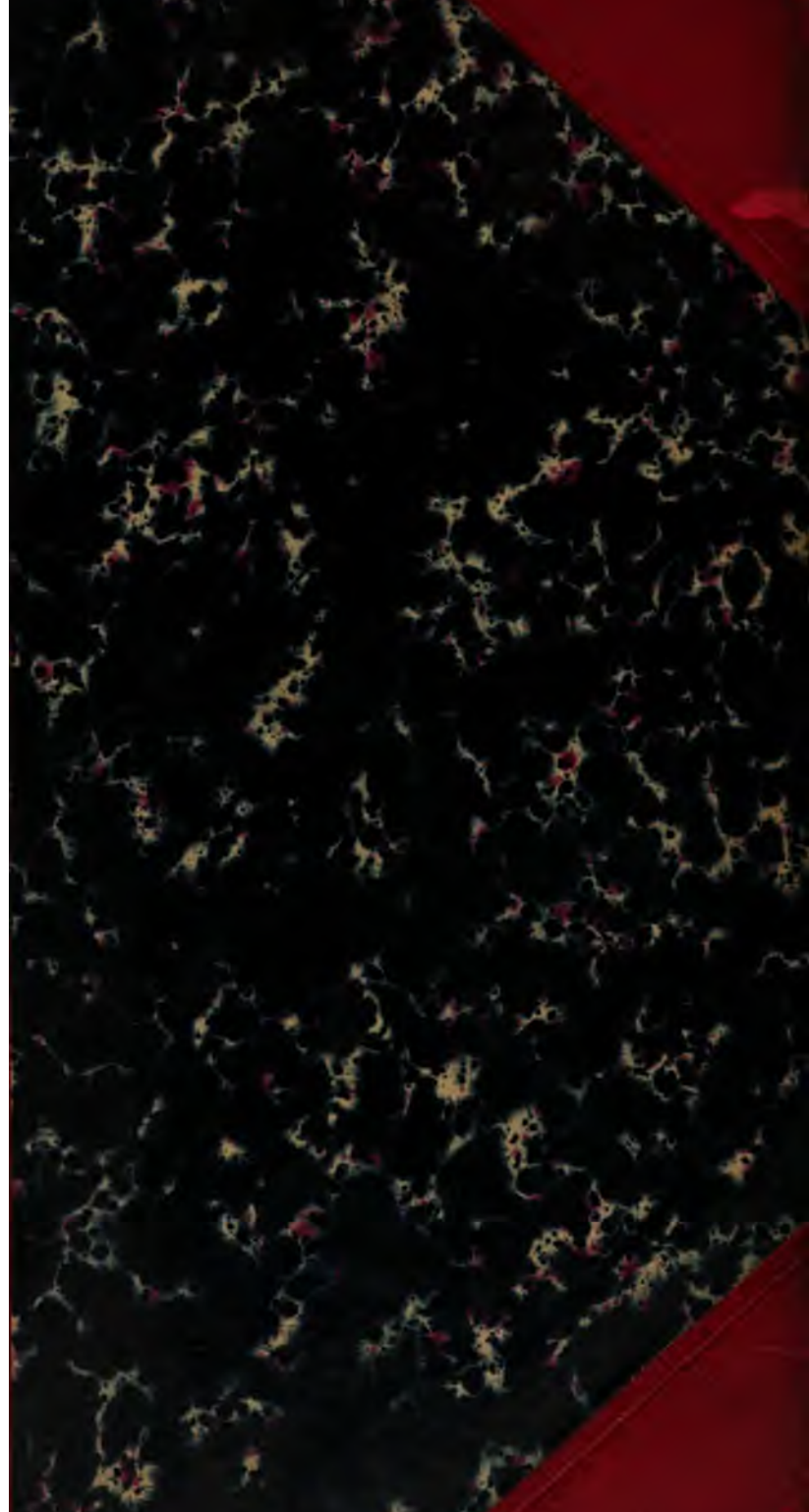
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The literature indexed is mainly that of 1903, but includes those portions of the literature of 1901 and 1902 for which the date on which the index slips were received by the Central Bureau was too late for inclusion in the previous volumes.

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Many of the sections are sub-divided into a number of sub-sections by means of topographical symbols. These symbols are letters printed in italics. They are explained in the topographical classification. The topographical symbols are not intended to be used instead of registration numbers.

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——— [Metamerism in the *Enteropneusta*]. l.c. (669).

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Hartmeyer, R. Ueber Varietätenbildung und eine geographische Varietät von *Ciona intestinalis* (L.). Berlin, SitzBer. Ges. natf. Freunde, **1902**, (203-205).

d EUROPE.

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Todd, R. A. Notes on the Invertebrate fauna and fish-food of the bays between the Start and Exmouth. Plymouth, J. Mar. Biol. Ass., **6**, 1903, (541-561).

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Paris, C.-R. Acad. sci., **136**, 1903, (621-622).

k ARCTIC.

Hartmeyer, Robert. Die Ascidien der Arktis. Fauna Arctica, Jena, **3**, 1903, (91-412, mit 11 Taf.).

m INDIAN OCEAN.

ma INDIAN OCEAN AND ISLANDS N. OF EQUATOR.

Forster Cooper. Cephalochordata. Fauna of the Maldive and Laccadive Islands, **1**, (347-360).

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— *spitzbergense*. **Hartmeyer.** 10.

BALANOGLOSSUS [Enteropneusta].

— *parvulus*. **Punnett.** 20.

BOLTENIA [Tunicata].

— *thompsoni*. **Hartmeyer.** 10.

CORELLOPSIS n. gen. [Tunicata]. **Hartmeyer.** 10.

— *pedunculata*. **Hartmeyer.** 10.

DIPLOSOIMOIDES [Tunicata].

— *bathophilum*. **Hartmeyer.** 10.

— *dubium*. **Hartmeyer.** 10.

DOLICHOGLOSSUS [Enteropneusta].

— *bournei*. **Menon.** 15.

HETEROPLEURON [Leptocardii].

— *maldivense*. **Forster Cooper.** 7.

HYPURGON n. gen. [Tunicata]. **Sollas.** 23.

— *skeati*. **Sollas.** 23.

LEPTOCLINUM [Tunicata].

— *polare*. **Hartmeyer.** 10.

MOLGULA [Tunicata].

- *cynthiasformis*. Hartmeyer.
10.
—— *römeri*. Hartmeyer. 10.

Oligotrema n. gen. [Tunicata]. Bourne.
4.

- *psammites*. Bourne. 4.

Ptychodera [Enteropneusta].

- *asymmetrica*. Punnett. 20.
—— *viridis*. Punnett. 20.

RHIZOMOLGULA [Tunicata].

- *ritteri*. Hartmeyer. 10.

SPENGELIA [Enteropneusta].

- *maldivensis*. Punnett. 20.

Stephanosalpa n. gen. [Tunicata]. Bon-
nier et Pérez. 3.

- *polyzona*. Bonnier et
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Evermannella n. gen., (type *Cynopotamus biserialis* Garman). **Eigenmann**, C. H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (144-148).

Gilbertella n. gen., (type *Anacyrtus alatus* Steind.). **Eigenmann**, C. H. l.c. (144-148).

Hemigrammus nn. spp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497-537).

Hemiodus orthonops n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. l.c. (497-537).

Uloprion n. gen., (type *Cheirodon agassizii* Steind.). **Eigenmann**, C. H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (144-148).

Holopristis n. gen., (type *Tetragonopterus ocellifer* Steind.). **Eigenmann**, C. H. l.c. (145).

Holostethes n. gen., (type *Cheirodon pequiria* Steind.). **Eigenmann**, C. H. l.c. (144-148).

Hopliss n. nom. = *Macrodon* Müller. **Gill**, T. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (50).

Markiana n. gen., (type *Tetragonopterus nigripinnis* Perugia). **Eigenmann**, C. H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (144-148).

Metynnis (subg. *Mylocoelops*. r. subg.) (type *M. goeldii* Eigenmann = *Myletes lippencottianus* Ulrey not Cope). **Eigenmann**, C. H. l.c. (144-148).

———— *mola* n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497-537).

Moenkhausia n. gen., (type *Tetragonopterus zigzagsis* Steind.). **Eigenmann**, Carl H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (144-148).

Myless (subg. *Orthomyless* n. subg.). **Eigenmann**, C. H. l.c. (144-145).

Mylossoma Eigenmann and Kennedy, (type *Myletes albiscopus* Cope). **Eigenmann**, Carl H. l.c. (144-148).

Nannocharax intermedius n. sp. S. Cameroons. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (437).

Odontostilbe nn. spp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497-537).

Othonophanes n. gen., (type *Brycon labiatus* Steind.). **Eigenmann**, C. H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (144-148).

Petersius major n. sp. S. Cameroons. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (436).

Piabucina nn. spp. South America. **Began**, C. T. l.c. (622-623).

Piaractus n. gen., (type *Myletes brachypomus* Cuv.). **Eigenmann**, C. H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (144-148).

Poecilurichthys moenkhausii n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497-537).

Psectrogaster curviventris n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. l.c.

Pyrrhulina australe n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. l.c.

Stichonodon n. nom. *Lütkenia*. **Eigenmann**, Carl H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (144-148).

CYPRINIDAE.

GENERAL.

Chiappi, [T.]. Sopra una forma ibrida di *Ciprinide* esistente nei laghi di Varano e Monate. Mon. zool. ital., Firenze, **13**, 1902, (Supplemento) (28-30).

Evermann, B. W. Bait minnows. New York, Forest Fish Game Com. Rep., Albany, **1900**, 1901, (307-352, with col. pl. and text fig.).

Jordan, D. S. and **Fowler**, H. W. A review of the *Cobitidae*, or loaches, of the rivers of Japan. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (1 l. + (763-774) with fig. in text).

_____ A review of the Cyprinoid fishes of Japan. l.c. (811-862, with fig. in text). Separate. 24.5 cm.

SPECIAL.

Abbottina n. gen., *A. psegma* n. sp. Japan. **Jordan**, D. S. and **Fowler**, H. W. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **26**, 1903, (835).

Abramis vimba in Galicia. **Roswadowski**, J. Okóln. Tow. Ryb., Kraków, **1903**, (27-31, av. 1 pl.).

Acanthophthalmus shelfordii n. sp. **Poyta**, C. M. L. Leiden, Notes Mus. Jentink, **23**, 1903 (231-233).

Acheilognathus cyanostigma n. sp. Japan. **Jordan**, D. S. and **Fowler**, H. W. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **26**, 1903, (820).

Agosia robusta n. sp. California. **Butter**, C. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (143-148, with text fig.).

Algansea rubescens n. sp. Mexico. **Meek**, S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3**, 1902, (63-128, with pl.).

Aztecula mexicana n. sp. Mexico. **Meek**, S. E. l.c.

Barbus nn. spp. Niger Delta. **Boulenger**, G. A. London, Proc. Zool. Soc., **1902**, 2, (327, pl. XXVIII); S. Cameroon, **1903**, 1, (24-25, pls. II-III); E. Africa, **1903**, 2, (331-332); E. Africa, Ann. Mag. Nat. Hist., London, (Ser. 7), **11**, 1903, (52-54); Victoria Nyanza, **12**, 1903, (218); S. Cameroon, *ib.*, (437); Nile, *ib.*, (532-533).

Biria n. gen., type *Pseudogobio zezera* Ishikawa. Japan. **Jordan**, D. S. and **Fowler**, H. W. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **26**, 1903, (838).

Catostomus nn. spp. Mexico. **Meek**, S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3**, 1902, (63-128, with pl.).

Chasmistes chamberlaini n. sp. California. **Butter**, C. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (143-148).

Chondrostoma nasus in Galicia. **Roswadowski**, J. Okóln. Tow. Ryb., Krakow, **1903**, (24-31, av. 1 pl.).

Cobitis fossilis. **Lauppe**, L. Aus d. Heimat, Stuttgart, **16**, 1903, (7-12).

Cyprinus carpio, Parasit [*Trypanoplasma cyprini* n. sp.] **Flehn**, M. Arch. Protistenkunde, Jena, **3**, 1903, (175-180, mit 1 Taf.).

_____ **Walter**, E. Die Karpfennutzung in kleinen Teichen. (J. Neumanns Fischereiwirtschaftliche Büchersammlung.) Neudamm (J. Neumann), 1903, (104).

Discognathus makiensis n. sp. Southern Ethiopia. **Boulenger**, S. A. London, Proc. Zool. Soc., 1903, 2, (330).

Elzis n. gen., *E. nikkonis* n. sp. **Jordan**, D. S. and **Fowler**, H. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., 26, 1903, (768).

Evarra thahuacensis n. sp. Mexico. **Meek**, S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., 3, 1902, (63-128).

Gila minacae n. sp. Mexico. **Meek**, S. E. l.c.

Labeo, synopsis of the African species. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), 12, 1903, (335).

———— *annectens* n. sp. S. Cameroon. **Boulenger**, G. A. London, Proc. Zool. Soc., 1903, 1, (23-24, pl. II, fig. 1).

———— *falcipennis* n. nom. for *Labeo falcifer*. Congo. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), 12, 1903, (360).

———— *kirkii* n. sp. East Africa. **Boulenger**, G. A. l.c. (360).

———— *neumanni* n. sp. Southern Ethiopia. **Boulenger**, G. A. London, Proc. Zool. Soc., 1903, II, (329).

———— *victorianus*: *fuellerborni* n. subsp. **Hilgendorf**, F. and **Pappenheim**, P. Berlin, SitzBer. Ges. natf. Freunde, 1903, (259-271).

———— *walkeri* n. sp. Gold Coast. **Günther**, A. London, Proc. Zool. Soc., 1902, 2, (338, pl. XXXIII).

Leucaspius delineatus, monographische Beschreibung. **Vutskits**, G. Allatt. Közlem., Budapest, 2, 1903, (169-188, mit Taf. XV).

Leuciscus carletoni n. sp. Maine. **Kendall**, W. C. Washington, D.C., Bull. U. S. Fish Com., 22, (1902), (334-363).

———— *phalaecorax* n. sp. Japan. **Jordan**, D. S. and **Fowler**, H. W. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., 26, 1903, (845).

Mollienisia latipinna, ein neueingeführter lebendiggebärender Zahnkarpfen. **Schroot**, W. Natur u. Haus, Dresden, 11, 1903, (193-195).

Nemachilus fedtschenkoae n. sp. Transcaspia (fl. Murgab). **Nikol'skij**,

A. M. St. Petersburg, Ann. Mus. zool. Ac. Sc., 8, 1903, (90-94).

Notropis nn. spp. Mexico. **Evermann**, B. W., and **Goldsborough**, E. L. Washington, D.C., Bull. U. S. Fish Com., 21, (1901), 1902, (137-159).

———— nn. spp. Mexico. **Meek**, S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., 3, 1902, (63-128).

———— *brimleyi* n. sp. North Carolina. **Bean**, B. A. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., 26, 1903, (913-914).

Orthrias n. gen., *O. oreas* n. sp. Japan. **Jordan**, D. S. and **Fowler**, H. W. l.c. (769).

Pantosteus lahonton n. sp. California. **Butter**, C. Washington, D.C., Bull. U. S. Fish Com., 22, (1902), 1903, (143-148).

Pimephales anuli n. sp. Maine. **Kendall**, W. C. l.c. (353-368).

Ptychobarbus kaznakovi n. sp. Tibet orient (fl. Dza-tschju). **Nikol'skij**, A. M. St. Petersburg, Ann. Mus. zool. Ac. Sc., 8, 1903, (90-94).

Rasbora nn. spp. Sumatra. **Volz**, W. Zool. Anz., Leipzig, 26, 1903, (553-559).

Scardinius erythrophthalmus con *Leuciscus aulu* . . . forma ibrida di Ciprinide esistente nei laghi di Varano e Monate. **Chiappi**, [T.]. Mon. zool. ital., Firenze, 13, 1902, (Supplemento), (28-30).

Schizothorax kozlovi n. sp. T'be' orient (fl. Dza-tschju). (Russ.) **Nikol'skij**, A. M. St. Petersburg, Ann. Mus. zool. Ac. Sc., 8, 1903 (90-94).

Zezera n. gen., type, *Sarcocheilichthys hilgendorfi* Ishikawa ms. **Jordan**, D. S. and **Fowler**, H. W. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., 26, 1903, (837).

SILURIDAE.

GENERAL.

Jordan, D. S. and **Fowler**, H. W. A review of the Siluroid fishes or catfishes [Nematognathi] of Japan. [*Plo'osidae* and *Siluridae*]. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., 26, 1903, (11 + (897-911)).

Kendall, W. C. Habits of some of the commercial cat-fishes. [*Siluridae*]. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (399-409).

SPECIAL.

Allabenshelys brevior n. sp. S. Cameroons. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (439).

Amiurus. **God**, A. Nature, Paris, **30**, (2^e semest.), 1902, (283-284, av. fig.).

——— *nebulosus*, introduction en Europe, d'Amérique. **Fuhrmann**, O. Arch. Sci. Phys., Genève, (sér. 4), **16**, 1903, (331-332).

——— breeding habits. **Smith**, H. M. and **Harron**, L. G. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (149-154).

Amphylus longirostris, description. **Boulenger**, G. A. London, Proc. Zool. Soc., **1903**, 1, (25-26, pl. I, fig. 3).

——— *platychir* Gthr. Gold Coast. **Günther**, A. l.c. **1902**, 2, (336).

Arius marinus redescribed. **Fowler**, H. W. Philadelphia, Pa. Proc. Acad. Nat. Sci., **55**, 1903, (346-350).

Bagarius lica n. sp. Sumatra. **Volz**, W. Zool. Anz., Leipzig, **26**, 1903, (553-559).

Chiloglanis modjensis n. sp. from southern Ethiopia. **Boulenger**, G. A. London, Proc. Zool. Soc., **1903**, 2, (332-333).

Chrysichthys lagoensis from Gold Coast. **Günther**, A. l.c. **1902**, 2, (335).

Clarias carsonii n. sp. British Central Africa. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (362-363).

——— *kingsleyae* n. sp. Gold Coast. **Günther**, A. London, Proc. Zool. Soc., **1902**, 2, (334).

——— *pachynema* n. sp. S. Cameroons. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (438).

Conorhynchus nelsoni n. sp. Yucatan. **Evermann**, B. W. and **Goldsborough**, E. L. Washington, D.C., Bull. U. S. Fish Com., **21**, (1901), 1902, (137-159).

Corydoras nn. spp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (505-507).

Doras nebulosus n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. l.c. (500).

Fluvidraco n. gen., type *Pseudobagrus ransonnetii* Steindachner. Japan. **Jordan**, D. S. and **Fowler**, H. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (904).

Macrones bleekeri n. sp. Sumatra. **Volz**, W. Zool. Anz., Leipzig, **26**, 1903, (556).

Malopterurus electricus, use of the name *Torpedo* for. **Gill**, T. N. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (697-698).

Microsynodontis n. gen., *M. batesii* n. sp. S. Cameroons. **Boulenger**, G. A. London, Proc. Zool. Soc., **1903**, 1, (26-27, pl. IV).

Notoglanidium n. gen., *N. icalkeri* n. sp. Gold Coast. **Günther**, A. l.c. **1902**, 2, (336-337, pl. XXXII).

Phractura longicauda n. sp. S. Cameroons. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (430-440).

Pimelodus (*Pimelodella*) nn. spp. South America. **Regan**, C. T. l.c. (625-626).

Plotosus nigricans, un exemplaire type, et remarques taxonomiques sur le groupe des *Plotosina*. **Vaillant**, L. Bul. Muséum, Paris, **1903**, (117-120).

Rhamdia oaxacae n. sp. Mexico. **Meek**, S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3**, 1902, (63-128).

Synodontis fuelleborni n. sp., *S. zambezensis*: *rukwaensis* n. subsp. Rukwa-See, Ost-Afrika. **Hilgendorf**, F. und **Pappenheim**, P. Berlin, SitzBer. Ges. natf. Freunde, **1903**, (265).

——— *melanopterus* n. sp. Niger Dela. **Boulenger**, G. A. London, Proc. Zool. Soc., **1902**, 2, (327, pl. XXXIX).

Trichomycterus nn. spp. South America. **Regan**, C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (623-624).

LORICARIIDAE.

Arges orientalis n. sp. Venezuela. **Boulenger** G. A. Ann. Mag. Nat. Hist., London (Ser. 7), **11**, 1903, (601-602).

Chaetosomus anomalus n. sp. Venezuela. **Regan**, C. T. l.c. (599).

Plecostomus boulengeri n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497-537).

Pterygoplichthys nn. spp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. l.c. (503-504).

ASPREDINIDAE.

Bunocephalus rugosus n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (498).

APODES.

GENERAL.

Alia, E. P. jun. The lateral sensory system in the *Muraenidae*. Intern. Monatschr. Anat., Leipzig, **20**, 1903, (125-170, mit 3 Taf.).

Boeke, J. . . . Gastrulation und Keimblätterbildung bei den Muraenoiden. Petrus Camper, Bijdr. Anat., Haarlem, **2**, 1903, (135-210, mit 2 Taf. und Fig.).

Ricci, O. Murenoidi . . . metamorfosi . . . Modena, Atti Soc. nat. mat., (Ser. 4), **4**, 1901, (11-35).

SPECIAL.

Ahia eymontis. Barbados. **Bean**, B. A. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (963-964).

Anguilla sulla malattia [di questo pesce]. **Sennabogen**, E. Neptunia, Venezia, **17**, 1902, (135-138, 150-153, 159-163, 171-173).

— osservazioni intorno alla [loro] semina nelle valli salse. **Voltona**, V. Neptunia, Venezia, **18**, 1902, (174-176).

— *chrysypa*, nomenclature. **Clark**, A. H. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (52).

Anguilla vulgaris Flem. Ein Beitrag zur Kenntnis seiner Naturgeschichte sowie seiner wirtschaftlichen Bedeutung. **Leonhardt**, E. Stuttgart, (E. Schweizerbart), 1902, (56).

Anguillatus n. gen. (*Anguillavidae* n. fam.), *A. bathshebae*†, *A. quadripennis*† nn. spp. Syria, Upper Cretaceous. **Hay**, O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (436-439).

Congrellus bouersi n. sp. Hawaii. **Jenkins**, O. P. Washington, D.C., Bull. U. S. Fish Com., **1902**, 1903, (417-511).

Echidna nn. spp. Hawaii. **Jenkins**, O. P. l.c. (417-511).

— *zonophaea* n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. l.c. **22**, (1902), 1903, (161-208).

Enchelion n. gen., (*Encheliidae* n. fam.), *E. montium*† n. sp. Syria, Upper Cretaceous. **Hay**, O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (441).

Gymnothorax nn. spp. Hawaii. **Jenkins**, O. P. Washington, D.C., Bull. U. S. Fish Com., **1902**, 1903, (417-511).

— nn. spp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. l.c. **22**, (1902), 1903, (161-208).

Gynomuraena brevicauda n. sp. Mauritius. **Regan**, C. T. Rev. Suisse Zool., Genève, **11**, 1903, (418, pl. XIV, fig. 3).

Leptocephalus nn. spp. **Eigenmann**, C. H. and **Kennedy**, C. H. l.c. (81-92, with text fig.).

— *conger*, embryology. **Eigenmann**, C. H. Washington, D.C., Bull. U. S. Fish Com., **21**, 1901, (37-44, with text fig.).

— *grassii* n. sp. = *Anguilla chrysypa*. **Eigenmann**, C. H. and **Kennedy**, C. H. l.c. **21**, 1901, (81-92, with text fig.).

Nierodonophis fouleri n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. l.c. **22**, (1902), 1903, (161-208).

— *macgregori* n. sp. Hawaii. **Jenkins**, O. P. l.c. **1902**, 1903, (417-511).

Muraena nn. spp. Hawaii. **Jenkins**, O. P. l.c. (417-511).

Muraena grandimaculis n. sp. Rio Janeiro. **Regan**, C. T. Rev. Suisse Zool., Genève, **11**, 1903, (418, pl. XIV, fig. 3).

———— *helena* L., note. **Regan**, C. T. London, Proc. Zool. Soc., **1903**, **2**, (60).

———— *kailuas* n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (161-208).

Ophichthys (Pisodontophis) brevimanus n. sp. South America. **Regan**, C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (622).

———— *versicolor* redescribed and figured. **Waite**, E. R. Sydney, N.S.W., Rec. Austr. Mus., **5**, 1903, (22, pl. III, fig. 1).

Urenchelys germanus† n. sp. Syria, Upper Cretaceous. **Hay**, O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (434).

———— *limhamnensis* the same as *Dercetis limhamnensis*. **Woodward**, A. S. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (254-255).

H A P L O M I.

ENCHODONTIDAE.

Enchodus saevus† n. sp. **Hay**, O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (76).

SCOPELIDAE.

Acrognathus dodgei† n. sp. Syria, Upper Cretaceous. **Hay**, O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (427, pl. XXXIV, fig. 3).

Macristium n. gen., *M. chavesi* n. sp. Azores. **Regan**, C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (345).

Microcoelia dayi† n. sp. Syria, Upper Cretaceous. **Hay**, O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (430, pl. XXXI, fig. 3, pl. XXXIV, fig. 1).

Rhinellus delicatus⁺ n. sp. Syria, Upper Cretaceous. **Hay**, O. P. l.c. (432).

Rhinoscopelus oceanicus n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (161-208).

Sardinus? imbellis† n. sp. **Hay**, O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (93).

Skiffia n. gen., *S. lermæ*, *S. variegata* nn. spp. Mexico. **Meek**, S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3**, 1902, (63-128, with pl.).

Toxus n. gen., *T. riddlei* n. sp. Cuba. **Eigenmann**, C. H. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (211-236, with text fig., pl.).

Xiphophorus jalapae n. sp. Mexico. **Meek**, S. E. Chicago, Ill., Pub. Field Columb. Mus. Zool. Ser., **3**, 1902, (63-128, with pl.).

Zoogoneticus n. gen., *Z. diazi*, *Z. miniatus* nn. spp. Mexico. **Meek**, S. E. (63-128, with pl.).

KNERIIDAE.

Gill, T. N. The fishes of the African family *Kneriidae*. [New superfamily *Knerioidea* provisionally associated with *Iniomi*]. Science, New York, N.Y., (N. Ser.), **18**, 1903, (338-339).

CYPRINODONTIDAE.

Chapalichthys n. gen. Mexico. **Meek**, S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3**, 1902, (63-128, with pl.).

Fundulus cubensis n. sp. Cuba. **Eigenmann**, C. H. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (211-236, with text fig., pl.).

———— *loenbergi* n. sp. S. Cameroons. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (440-441).

———— *oaxacae* n. sp. Mexico. **Meek**, S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3**, 1902, (63-128, with pl.).

———— *paraguayensis* n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (530).

Girardinus garmani n. sp. Cuba. **Eigenmann**, C. H. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (211-236, with text fig., pl.)

Glariidichthys nn. spp. Cuba. **Eigenmann**, C. H. l.c. (211-236, with text fig., pl.).

Haplochilus cameronensis n. sp. S. Cameroons. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (440).

———— *peruanus* n. sp. South America. **Regan**, C. T. l.c. (626)

Heterandria cubensis n. sp. Cuba. **Eigenmann**, C. H. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (211-236, with text fig., pl.).

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Snodgrass, R. E. Washington, D.C.,
Proc. Acad. Sci., 5, 1903, (189).

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Jordan, D. S. and Starks, E. C.
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Nation. Mus. Proc., 26, 1903, (531).

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I.c. (161-208).

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the British and Irish species of the
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IV-V).

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ciformis* Mitch., described and figured.
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pls. IV and V).

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Bull. U. S. Fish Com., 21, 1901, (35-36).

OPHIOCEPHALIDAE.

Ophiocephalus studeri n. sp. Sumatra.
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Cameroon. Boulenger, G. A. London,
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fig. 1).

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Proc. R. Soc., 24, 1903, (437-438).

Regan, C. T. On the systematic position and classification of the Gadoid or Anacanthine Fishes. *Ann. Mag. Nat. Hist., London*, (Ser. 7), **11**, 1903, (459-466, with figs.).

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Laemonemodes n. gen., *L. compressicauda* n. sp. S. Africa. **Gilchrist, J. D. F.** Cape Town, *Marin. Invest.*, **2**, 1903, (208, pl. XVI).

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Flammeo scythrops n. sp. Hawaii. **Jordan, D. S.** and **Evermann, B. W.** Washington, D.C., *Bull. U. S. Fish Com.*, **22**, (1902), 1903, (161-208).

Holocentrus nn. spp. Hawaii. **Jordan, D. S.** and **Evermann, B. W.** *l.c.* (161-208).

Myripristis nn. spp. Hawaii. **Jordan, D. S.** and **Evermann, B. W.** *l.c.* (161-208).

——— *sealei* n. sp. Hawaii. **Jenkins, O. P.** *l.c.* **1902**, 1903, (417-511).

Plectromus macrophthalmus n. sp. S. Africa. **Gilchrist, J. D. F.** Cape Town, *Marin. Invest.*, **2**, 1903, (205, pl. XIII, fig. 2).

Pycnosterinx levispinosus† n. sp. Syria, Upper Cretaceous. **Hay, O. P.** New York, N.Y., *Bull. Amer. Mus. Nat. Hist.*, **19**, 1903, (444, pl. XXXVI, fig. 4).

Trachichthodes n. gen., *T. spinosus* n. sp. S. Africa. **Gilchrist, J. D. F.** Cape Town, *Marin. Invest.*, **2**, 1903, (204, pl. XIII, fig. 1).

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Sectator azureus n. sp. Hawaii. **Jordan, D. S.** and **Evermann, B. W.** Washington, D.C., *Bull. U. S. Fish Com.*, **22**, (1902), 1903, (161-208).

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Hadropterus evermanni n. sp. Indiana. **Moenkhaus, W. J.** Washington, D.C., *Bull. U. S. Fish Com.*, **22**, (1902), 1903, (395-398, with text fig.).

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———— *kelloggi* n. sp. Hawaii. **Jordan, D. S.** and **Evermann, B. W.** Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (161-208).

Apogon atradorsatus n. sp. **Heller, E.** and **Snodgrass, R. E.** Washington, D.C., Proc. Acad. Sci., **5**, 1903, (192, pl. III).

———— *menesemus* n. sp. Hawaii. **Jenkins, O. P.** Washington, D.C., Bull. U. S. Fish Com., **1902**, 1903, (417-511).

———— *queketti* n. sp. S. Africa. **Gilchrist, J. D. F.** Cape Town, Marin. Invest., **2**, 1903, (206, pl. XIV).

———— *snyderi* n. sp. Hawaii. **Jordan, D. S.** and **Evermann, B. W.** Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (161-208).

Apogonichthys waikiki n. sp. Hawaii. **Jordan, D. S.** and **Evermann, B. W.** l.c. (161-208).

Boursia n. gen. et nn. spp. Hawaii. **Jordan, D. S.** and **Evermann, B. W.** l.c. (161-208).

Centropomus atridorsalis n. sp. South America. **Regan, C. T.** Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (627).

Chilodipterus affinis, incubation bucco-branchiale. **Vaillant, L.** Bul. Muséum, Paris, **1903**, (207).

Cirrhitoides n. gen., *C. bimaculata* n. sp. Hawaii. **Jenkins, O. P.** Washington, D.C., Bull. U. S. Fish Com., **1902**, 1903, (417-511).

Dinoperca queketti n. sp. Natal. **Boulenger, G. A.** Cape Town, Ann. S. Afric. Mus., **3**, 1903, (63, pl. II).

Epinephelus nn. spp. Natal. **Boulenger, G. A.** Cape Town, Ann. S. Afric. Mus., **3**, 1903, (64, pl. III).

Etelis erurus n. sp. Hawaii. **Jordan, D. S.** and **Evermann, B. W.** Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (161-208).

Eteliscus marshi n. sp. Hawaii. **Jenkins, O. P.** l.c. **1902**, 1903, (417-511).

Fowleria n. gen., (type, *F. aurita*). Hawaii. **Jordan, D. S.** and **Evermann, B. W.** l.c. **22**, (1902), 1903, (161-208).

———— *brachygrammus* n. sp. Hawaii. **Jenkins, O. P.** l.c. **1902**, 1903, (417-511).

Galeagra n. gen. *G. pammela* n. sp. **Heller, E.** and **Snodgrass, R. E.** Washington, D.C., Proc. Acad. Sci., **5**, 1903, (189-229, 19 pl.).

Pentaceroopsis Sldr. and Döderl. 1883 superseded *Prosopismus* Waite 1903. **Waite, E. R.** Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (288).

Pikea aurora n. sp. Hawaii. **Jordan, D. S.** and **Evermann, B. W.** Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (161-208).

Priacanthus alalaua n. sp. Hawaii. **Jordan, D. S.** and **Evermann, B. W.** l.c. (161-208).

———— *meeki* n. sp. Hawaii. **Jenkins, O. P.** l.c. **1902**, 1903, (417-511).

Prosopismus n. gen. Australia. **Waite, E. R.** Sydney, N.S.W., Rec. Austr. Mus., **5**, 1903, (59, pl. VI.).

Serranus auriga, *S. flaviventris* (C and V). **Regan, C. T.** London, Proc. Zool. Soc., **1903**, **2**, (61).

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Jordan, D. S. A review of the Cepolidae or band-fishes of Japan. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (669-702).

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Corrina crafordii n. sp. South America. **Regan, C. T.** Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (627-628).

Corvula eurymesops n. sp. **Heller, E.** and **Snodgrass, R. E.** Washington, D.C., Proc. Acad. Sci., **5**, 1903, (189-229, 19 pls.).

Cynoscion regalis, changes during life. **Eigenmann**, C. H. Washington, D.C., Bull. U. S. Fish Com., **21**, 1901, (45-51, with text fig.).

——— **Tower**, R. W. l.c. (1902), (131-135, with pl.).

Sciaena perissa n. sp. **Heller**, E. and **Snodgrass**, R. E. Washington, D.C., Proc. Acad. Sci., **5**, 1903, (189-229, 19 pl.).

——— *peruana* n. sp. **Steindachner**, F. Zool. Jahrb., Jena, Suppl. **6**, 1903, (201-214).

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Regan, C. T. [On the genera of *Gerridae*]. London, Proc. Zool. Soc., **1903**, **2**, (63).

SPECIAL.

Eucinostomus meeki n. sp. Cuba. **Eigenmann**, C. H. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (211-236).

Gerres maldivensis n. sp. **Regan**, C. T. In J. S. Gardiner, Fauna Mald. and Laccad. Archip., **1**, (279).

PRISTIPOMATIDAE.

Conodon plumieri redescribed. **Fowler**, H. W. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (348).

Diagramma catifrons C and V. **Regan**, C. T. London, Proc. Zool. Soc., **1903**, **2**, (62).

Myliacodon n. gen., *M. goeldii* n. sp. Rio Janeiro. **Regan**, C. T. l.c. (62-63, pl. VII).

SPARIDAE.

Dentex lineopunctatus n. sp. Natal. **Boulenger**, G. A. Cape Town., Ann. S. Afric. Mus., **3**, 1903, (66, pl. VI).

Pagrus nigripennis n. sp. Natal. **Boulenger**, G. A. l.c. (67, pl. VII).

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Mulloidex flammeus n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (161-208).

Pseudupeneus chrysionemus n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. l.c. (161-208).

——— *porphyreus* n. sp. Hawaii. **Jenkins**, O. P. l.c. **1902**, 1903, (417-511).

SCORPIDIDAE.

Aipichthys formosus† n. sp. Syria, Upper Cretaceous. **Hay**, O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (445, pl. XXXII, figs. 2, 3).

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Chaetodon hoicensis n. sp. Lord Howe Id. **Waite**, E. Sydney, N.S.W., Rec. Austr. Mus., **5**, 1903, (33).

Heniochus diphrentes n. sp. Japan. **Jordan**, D. S. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (693-696, 1 pl.).

Platax vespertilio redescribed. **Fowler**, H. W. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (161).

TEUTHIDIDAE.

Acanthurus incipiens n. sp. Hawaii. **Jenkins**, O. P. Washington, D.C., Bull. U. S. Fish Com., **1902**, 1903, (417-511).

Callicanthus metoposophron n. sp. Hawaii. **Jenkins**, O. P. l.c. (417-511).

Teuthis nn. spp. Hawaii. **Jenkins**, O. P. l.c. (417-511).

——— *atrimentatus* n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. l.c. **22**, (1902), 1903, (161-208).

OSPHEROMENIDAE.

Osphromenus trichopterus, Beobachtungen über das Leben im Aquarium. **Melnikoff**, W. S. Natur u. Haus, Dresden, **11**, 1903, (169-172, 184-186).

Trichogaster fasciatus, Beobachtungen über das Leben im Aquarium. **Melnikoff**, W. S. l.c. (169-172, 184-186).

CICHLIDAE.

GENERAL.

Eigenmann, C. H. and Kennedy, C. H. On a collection of fishes from Paraguay, with a synopsis of the American genera of Cichlids [and bibliography]. (Contribution from the Zoological department of Indiana University, No. 56.) Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497-537).

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Acara sapayensis n. sp. South America. **Regan, C. T.** Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (628).

Aequidens paraguayensis n. sp. Paraguay. **Eigenmann, C. H.** and **Kennedy, C. H.** Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (534).

Biotodoma n. nom. = *Mesops*, *B. trifasciatus* n. sp. Paraguay. **Eigenmann, C. H.** and **Kennedy, C. H.** l.c., (536).

Biotocetus n. nom. = *Saraca*. Paraguay. **Eigenmann, C. H.** and **Kennedy, C. H.** l.c., (533).

Chromis nn. spp. Gold Coast. **Günther, A.** London, Proc. Zool. Soc., **1902**, 2, (332-333, pl. XXX-XXXI).

——— *elaphrus* n. sp. Hawaii. **Jenkins, O. P.** Washington, D.C., Bull. U. S. Fish Com., **1902**, 1903, (417-511).

——— *multicolor*, ein neuer Chanchito. **Engmann, P.** Natur u. Haus, Dresden, **11**, 1903, (321-323).

——— ———— Laichgeschäft. **Fließbach, O.** l.c. (323-324).

Cichlasoma eigenmanni n. sp. Mexico. **Meek, S. E.** Chicago, Ill., Pub. Field Columb. Mus. Zool. Ser., **3**, 1902, (63-128, with pl.).

——— *teapae* n. sp. Mexico. **Evermann, B. W.** and **Goldborough, E. L.** Washington, D.C., Bull. U. S. Fish Com., **21**, (1901), 1902, (137-159, with text fig.).

Crenicichla nn. spp. **Pellegrin, J.** Bul. Muséum, Paris, **1903**, (120-125).

Geophagus camopiensis n. sp. **Pellegrin, J.** l.c. (120-125).

Heros n. sp. et nn. subsp. Cuba. **Eigenmann, C. H.** Washington, D.C.,

Bull. U. S. Fish Com., **22**, (1902), 1903, (211-236, with text, fig., pl.).

Heros (Cichlasoma) labridens n. sp. **Pellegrin, J.** Bul. Muséum, Paris, **1903**, (120-125).

——— *octofasciatus* n. sp. Mexico. **Regan, C. T.** Rev. Suisse Zool., Genève, **11**, 1903, (417, pl. XIII, fig. 1).

——— *teporatus* n. sp. Mexico. **Fowler, H. W.** Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (321).

Lamprologus mocquardi n. sp. Oubanghi, W. Africa. **Pellegrin, J.** Bul. Muséum, Paris, **1903**, (220-221).

Paratilapia = *Chromis multicolor*. **Hilgendorf, F.** Berlin, SitzBer. Ges. natf. Freunde, **1903**, (429-432).

——— *luebberti* n. sp. aus Deutsch-Südwestafrika. **Hilgendorf, F.** l.c. **1902**, (141-143).

Pelmatochromis boulengeri n. sp. Cameroons. **Lönnberg, E.** Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (39-41).

——— *longirostris* n. sp. S. Cameroons. **Boulenger, G. A.** l.c. (441).

——— *pellegrini* n. sp. Niger Delta. **Boulenger, G. A.** London, Proc. Zool. Soc., **1902**, 2, (328-329, pl. XXIX.).

Pterophyllum altum n. sp. **Pellegrin, J.** Bul. Muséum, Paris, **1903**, (120-125).

Tilapia nn. spp. **Pellegrin, J.** l.c. (120-125).

——— *lata* Gthr., var. *camerunensis* n. var. Cameroons. **Lönnberg, E.** Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (41).

——— (*Gephyrochromis*) *linnellii* n. sp. Cameroons. **Lönnberg, E.** l.c. (42-46).

——— *microcephala* Blkr. note. **Lönnberg, E.** l.c. (41).

——— *nilotica*: *rukwaensis* n. subsp. **Hilgendorf, F.** and **Pappenheim, P.** Berlin, SitzBer. Ges. natf. Freunde, **1903**, (259-271).

POMACENTRIDAE.

Amphiprion intermedius Schleg. with *Discosoma* sp. . . . Case of commensalism. **Horst, R.** Leiden, Notes Mus. Jentink, **23**, 1903, (180-182).

Azurina eupalama n. sp. Heller, E. and Snodgrass, R. E. Washington, D.C., Proc. Acad. Sci., 5, 1903, (198).

Glyphisodon sindonis n. sp. Hawaii. Jordan, D. S. and Evermann, B. W. Washington, D.C., Bull. U. S. Fish Com., 22, (1902), 1903, (161-208).

Nexilosus n. gen., *N. albemarleus* n. sp. Heller, E. and Snodgrass, R. E. Washington, D.C., Proc. Acad. Sci., 5, 1903, (204).

Pomacentrus nn. spp. Heller, E. and Snodgrass, R. E. l.c. (200-202, pls. VI, VII).

——— *jenkinsi* n. sp. Hawaii. Jordan, D. S. and Evermann, B. W. Washington, D.C., Bull. U. S. Fish Com., 22, (1902), 1903, (161-208).

LABRIDAE.

Coris picta redescribed. Waite, E. R. Sydney, N.S.W., Rec. Austr. Mus., 5, 1903, (26, pl. V, fig. 1).

Hemipteronotus baldcini n. sp. Hawaii. Jordan, D. S. and Evermann, B. W. Washington, D.C., Bull. U. S. Fish Com., 22, (1902), 1903, (161-208).

Lepidoplois strophodes n. sp. Hawaii. Jordan, D. S. and Evermann, B. W. l.c. (161-208).

Pseudocheilinus erandidus n. sp. Hawaii. Jordan, D. S. and Evermann, B. W. l.c. (161-208).

——— *hezataenia* Blkr. mit monströser Verdoppelung der Linse. Hilgen-dorf, F. Berlin, SitzBer. Ges. natf. Freunde, 1903, (3-5).

Pseudolabrus luculentus, note. Waite, E. R. Sydney, N.S.W., Rec. Austr. Mus., 5, 1903, (29, pl. IV, fig. 1).

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INCERTAE SEDIS.

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Diomedea exulans, feeding habits. **Belding**, L. Condor, Santa Clara, Cal., 5, 1903, (17).

— *nigripes*, *D. albatrus*, flight and distribution, North Pacific Ocean. **Barrett-Hamilton**, G. E. H. Ibis, London, 1903, (320-324).

Oestrelata sp. . . . [in Denmark], (Danish) **Winge**, H. Kjöbenhavn, Nath. Medd., 1903, (61-110, with 1 pl.).

— *melania* and *O. socorroensis*, nesting habits. **Brewster**, W. Auk, Cambridge, Mass., 20, 1903, (63-64).

Pelagodroma marina, note. **Townsend**, S. P. Vict. Nat., Melbourne, 19, 1903, (166-169).

Procellaria leucorhoa, Vorkommen in Holland. **Schauburg**, Baron R. Snouckaert van. Ornith. Monatschr., Gera, 28, 1903, (113-114).

Puffinus griseus (Gmel.), Firth of Forth. **Evans**, W. Ann. Scot. Nat. Hist., Edinburgh, 1903, (26-28).

Sterna bergi, *S. fuliginosa*, *S. media*, from Oyster Cay, N. Queensland. **Cornwall**, E. M. Emu, Melbourne, 3, 1903, (46, pl. IV).

Thalasseojeron carteri n. sp. Australia. **Rothschild**, Hon. W. London, Bull. Brit. Ornith. Cl., 14, 1903, (6).

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Inglis, C. M. Notes on birds from Tirhut [*Pelecanidae*]. Bombay, J. Nat. Hist. Soc., 15, 1903, (71-72).

— Notes on birds from Tirhut [*Phalacrocoracidae*]. l.c. (72).

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Pelicanus, notes. **Holder**, C. F. Sci. Amer., New York, N.Y., 88, 1903, (480).

— *onocrotatus*. **Robinson**, L. Weidmann, Braunschweig, 34, 1903, (636-638).

Phalacrocorax. Fischer aus der Vogelwelt. . . . Schweiz. Fische-reiztg, Pfäffikon, 11, 1903, (128-129, mit 1 fig.).

— *albitenter*, *P. atriceps*, *P. bougainvillii*, *P. brevirostris*, *P. campbelli*, *P. carbo*, *P. carunculatus*, *P. chal-*

conotus, *P. colensoi*, *P. feathersoni*, *P. gaimardi*, *P. gouldi*, *P. hypoleucus*, *P. magellanicus*, *P. melanoleucus*, *P. onslowi*, *P. punctatus*, *P. pygmaeus*, *P. ranfurlyi*, *P. stewarti*, *P. traversi*, *P. varius*, *P. verrucosus* in New Zealand; a study in variation. **Hutton**, F. W. Emu, Melbourne, 3, 1903, (1-8).

Phalacrocorax carbo bei Brahestad. **Hintze**, H. Tidskr. Jag. Fisk., 1903, 6, (224).

— *graculus*, pale variety. **Sinclair**, R. Ann. Scot. Nat. Hist., Edinburgh, 1903, (118-119).

— — — — — early nesting. **Raeburn**, H. Zoologist, London, (Ser. 4), 7, 1903, (153).

— — — — — early nesting. **Blathwayt**, F. L. l.c. (192-193).

— *melanoleucus*, *P. sulcirostris*, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (158).

— *mexicanus*. **Nelson**, E. W. Condor, Santa Clara, Cal., 5, 1903, (139-145, with pl.).

— *nigrogularis* figured. **Grant**, W. R. O. and **Forbes**, H. O. Nat. Hist. Sokotra, Aves, (pl. VI).

Plotus norae-hollandiae, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (158).

Sula bassana. Amer. Ornith., Worcester, Mass., 3, 1903, (5-8, with fig. in text).

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Inglis, C. M. Notes on birds from Tirhut [*Plataleidae*]. Bombay, J. Nat. Hist. Soc., 15, 1903, (73).

— Notes on birds from Tirhut [*Ibididae*]. l.c. (73).

— Notes on birds from Tirhut [*Ciconiidae*]. l.c. (73-75).

— Notes on birds from Tirhut [*Ardeidae*]. l.c. (75-77).

SPECIAL.

Ardea, general ethology. **Bartsch**, P. Washington, D.C., Smithsonian Inst., Misc. Collect. Q. Issue, 45, 1903, (104-111, with pl.).

- Ardea* spp., *A. herodias fannini* n. subsp. **Chapman**, F. M. New York, N.Y., Bull. Amer. Mus. Nat. Hist., 14, 1901, (87-90).
- *cinerea*, Deutschland. **Krohn**, H. Leipzig (H. Seemann Nachf.), 1903, (103, mit 1 Karte). 20 cm. 2 M.
- **Noel**, P. Naturaliste, Paris, (sér. 2), 25, 1903, (97-98).
- **Hayessen**, F. Ornith. Monatschr., Gera, 28, 1903, (376-378).
- Nützlichkeit. **Peters**, A. Aus d. Heimat, Bremerhaven, 1901-02, 1903, (41-42).
- Kolonie in Unterfranken. **Spies**, J. München, Jahresber. ornith. Ver., 3, (1901. 1902), 1903, (87-88).
- *egretta*, Pennsylvania. **Burns**, F. L. Oberlin, Ohio, Bull. Agassiz Ass. Wilson Ornith. Cl., (N. Ser.), 9, 1902, (109).
- *herodias cognata* n. subsp. Galapagos Is. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., 3, 1903, (99-100).
- *purpurea* in Hertfordshire. **Steele-Elliott**, J. Zoologist, London, (Ser. 4), 7, 1903, (107).
- *virescens anthonyi* in California. **Feudge**, J. B. Condor, Santa Clara, Cal., 5, 1903, (80).
- Botaurus lentiginosus*, new to the Bahamas. **Bonhote**, J. L. London, Bull. Brit. Ornith. Cl., 13, 1903, (50).
- the American bittern in the Scilly Isles. **Smith**, Dorrien. l.c. 14, 1903, (32).
- Ciconia alba* im Kanton Solothurn. **Burg**, G. von. Ornith. Monatschr., Gera, 28, 1903, (240-245).
- erstes Nest in Lippe. **Schacht**, H. Münster, Jahresber. ProvVer. Wiss., 30, (1901-02), 1902, (68-70).
- *ciconia* L. im Schwarzwalde. **Hennemann**, W. Ornith. Monatschr., Gera, 28, 1903, (381-382).
- Dissura mortoni*, Borneo. **Grant**, W. R. O. Ibis, London, 1903, (145-148; pl. V).
- Dupetor flavicollis* and its allies. **Hartert**, E. Nov. Zool., Tring, 10, 1903, (63-64).
- *gouldi*, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (158).
- Geronticus eremita* L. Der Wald-rapp. **Fischer-Sigwart**, H. Ornithol. Beob., Bern, 1, 1902, (388-389).
- Herodias alba*, Rheinprovinz. **le Roi**, O. Ornith. Monatsber., Berlin, 11, 1903, (163-165).
- not *H. timoriensis* in Fohkien; *H. eulophotes* distinct from *Demiegretta sacra*. **Rickett**, C. B. Ibis, London, 1903, (220, 221).
- Heterocnus bolivianus* n. sp. Bolivia. **Lönnerberg**, E. l.c. (462-464).
- Ibis molucca*, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (157).
- Lamprebia olivacea* of Dubus. **Salvadori**, T. Ibis, London, 1903, (178-188).
- Notophoyz pacifica*, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (157-158).
- Platibis flavipes*, eggs. **Le Souëf**, D. l.c. (157).
- Plegadis falcinellus* in Yorkshire. **Arundel**, W. B. Ibis, London, 1903, (136).
- in Scotland. **Maclean**, W. Ann. Scot. Nat. Hist., Edinburgh, 1903, (186).
- glossy ibis in Roxburghshire. **Steel**, A. l.c. (49).
- in Ireland. **Williams**, E. Irish Nat., Dublin, 12, 1903, (112).
- Tantalus loculator* in Montana. **Cooley**, R. H. Auk, Cambridge, Mass., (N. Ser.), 20, 1903, (210).
- in California. **Daggett**, F. S. Condor, Santa Clara, Cal., 5, 1903, (18-19).
- in Colorado. **Felger**, A. H. Auk, Cambridge, Mass., (N. Ser.), 20, 1903, (65).
- in California. **Feudge**, J. B. Condor, Santa Clara, Cal., 5, 1903, (79).

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Job, H. K. Among the water-fowl; observation, adventure, photography. A popular narrative account of the water-fowl as found in the northern and middle states and lower Canada, east of the Rocky mountains. New York (Doubleday, Page), 1902, (XXI + 224, with illustr.). 22 cm.

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Oustalet, E. Apparition en France de quelques Palmipèdes du Nord, pendant l'hiver 1902-1903. *Nature*, Paris, (1^{er} sem.), 31, 1903, (193-195, av. fig.).

Robinson, H. W. British grey geese. *Zoologist*, London, (Ser. 4), 7, 1903, (268-273).

Sanford, L. C., Bishop, L. B., and Van Dyke, T. S. The water-fowl family. New York, London (Macmillan Co.), 1903, (ix + 598, with pl.). 21 cm.

Shufeldt, R. W. Osteology of the flamingoes (*Odontoglossae*). Family: *Phoenicopteridae*, Sp. P. *ruber*. Pittsburgh, Pa., Ann. Carnegie Mus., 1, 1901, (295-324, with pl.).

Sylvain. Le canard Tadorne. Eleveur, Paris, 19, 1903, (56-58).

Weber, A. Recherches sur le développement du foie chez le canard. *Bibliogr. anat.*, Nancy, 11, 1902, (21-30, av. fig.).

———— Recherches sur les premières phases du développement du cœur chez le canard. *l.c.* (197-216, av. fig.).

———— L'évolution des conduits pancréatiques chez les embryons de canard. *l.c.* (265-266).

Whitaker, J. Wild swans at Rainworth, Notts. *Zoologist*, London, (Ser. 4), 7, 1903, (28-29).

SPECIAL.

Acy galericulata, description and notes on the species. **Baker, E. C. S.** (x 3-9053)

Bonilay, J. Nat. Hist. Soc., 14, 1903, (600-605).

Anas boschas, variability in colour. **Bonhote, J. L.** *Zoologist*, London, (Ser. 4), 7, 1903, (107).

———— notes sur quelques métis et hybrides. **Magaud d'Autusson.** *Naturaliste*, Paris, (sér. 2), 25, 1903, (17, 45-46).

———— + *Dafila acuta*. **Felger, A. H.** *Auk*, Cambridge, Mass., (N. Ser.), 20, 1903, (303-304).

———— + *Nettion carolinensis*. **Stone, W.** *Auk*, Cambridge, Mass., (N. Ser.), 20, 1903, (209-210).

———— *fuligula*. **Sylvain.** *Eleveur*, Paris, 19, 1903, (216, av. fig.).

———— *obscura rubripes*. **Dawson, W. L.** *Oberlin*, Ohio, *Wilson Bull.* (Ornith.) (N. Ser.), 10, 1903, (38).

Henninger, W. F. *Oberlin*, Ohio, *Bull. Agassiz Ass. Wilson Ornith. Ch.*, (N. Ser.), 9, 1902, (134).

———— *supercilliosa*, eggs. **Le Souëf, D.** *Emu*, Melbourne, 2, 1903, (159).

Anser albifrons, *A. brachyrhynchus*, *A. segetum*. **Robinson, W. H.** *Zoologist*, London, (Ser. 4), 7, 1903, (269-270).

———— *artensis*, *A. segetum* and other species. **Frohawke, F. W. l.c.** (41-45, pl. II).

———— *fabalis*, variation. **Lönnterg, E. l.c.** (164-169).

———— *oatesi* in Fokien. **Rickett, C. B.** *Ibis*, London, 1903, (222).

———— *rubrirostris* (Hodgson), an occasional visitor to the British Isles. **Coburn, F.** *Zoologist*, London, (Ser. 4), 7, 1903, (46-52).

———— Dr. Radde's evidence. **Coburn, F. l.c.** (273-274).

———— *segetum* in the Outer Hebrides. **Harvie-Brown, J. A.** *Ann. Scot. Nat. Hist.*, Edinburgh, 1903, (119).

Anseranas semipalmata, eggs. **Le Souëf, D.** *Emu*, Melbourne, 2, 1903, (159).

Aythya affinis + *A. marila*. [hybridization.] **Eaton, F. H.** *Auk*, Cambridge, Mass., (N. Ser.), 20, 1903, (64).

Bernicla canadensis in the Outer Hebrides. **Guthrie**, D. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (119).

Chen rossi, breeding in captivity. **Blaauw**, F. E. Ibis, London, **1903**, (245-247).

Dafila acuta, inland in Cheshire. **Oldham**, C. Zoologist, London, (Ser. 4), **7**, 1903, (229-230).

Fuligula cristata in Merionethshire. **Aplin**, O. V. I.c. (316).

_____ nesting in South Uist. **Harvie-Brown**, J. A. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (245).

_____ *ferina*. **Sylvain**. Eleveur, Paris, **19**, 1903, No. 340, (12-13, av. fig.).

Mareca americana, new to the Bahamas. **Bonhote**, J. L. London, Bull. Brit. Ornith. Cl., **13**, 1903, (50).

_____ *penelope*. Indiana. **Deane**, R. Ank, Cambridge, Mass., (N. Ser.), **20**, 1903, (303).

_____ **Howe**, R. H., jun. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (210).

_____ Ohio. **Jones**, L. Oberlin, Ohio, Bull. Agassiz Ass. Wilson Ornith. Ch., (N. Ser.), **9**, 1902, (71).

Mergus serrator in Cheshire. **Oldham**, C. Zoologist, London, (Ser. 4), **7**, 1903, (459-460).

Oedemia fusca, velvet scoter, inland. **Service**, R. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (50).

Philacte canagica, Hawaiian Islands. **Henshaw**, H. W. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (164-167).

Phoenicopterus ruber, osteology. **Shufeldt**, R. W. Pittsburg, Pa., Ann. Carnegie Mus., **1**, 1901, (295-324, with pl.).

Polysticta Eyton (= *Eniconetta* Gray). **Richmond**, C. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (128).

Querquedula erecca nesting in Lewis. **Harvie-Brown**, J. A. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (245).

Somateria mollissima. **Mingaud**, G. Feuille jeunes natural., Paris, (sér. 4), **33**, 1903, (52).

_____ at Malahide. **Williams**, E. Irish Nat., Dublin, **12**, 1903, (112).

Spatula clypeata, in valley of Avon. **Corbin**, G. B. Zoologist, London, (Ser. 4), **7**, 1903, (274-276).

_____ nesting in South Uist. **Harvie-Brown**, J. A. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (245).

_____ **Sylvain**. Eleveur, Paris, **19**, 1903, (200-201, av. fig.).

Tadorna tadorna, Entwicklungslehre und Wirklichkeit. **Kleinschmidt**, O. Ornith. Monatsber., Berlin, **11**, 1903. (177-180).

_____ Veränderung der Artgewohnheit (bezw. lokaler Anpassung). **Schuster**, W. I.c. (153-156).

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Accipiter atricapillus in New Hampshire. **Hoffmann, R.** Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (211-212).

———— *batesi* n. sp. Cameroon. **Sharpe, R. B.** London, Bull. Brit. Ornith. Cl., **13**, 1903, (50).

———— *erythrauchen* from the Obi Is., Moluccas. **Hartert, E.** Nov. Zool., Tring, **10**, 1903, (3).

Aquila chrysaetos in Ohio. **Henninger, W. F.** Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (67).

———— *fulva* L., tué à Vibraye (Sarthe). **Letacq, A. L.** Mans (Le), Bul. soc. agricult. sci., **39**, 1903, (181-182).

———— *haliaetor* Mecklenberg. **Wüstnei, C.** Güstrow, Arch. Ver. Natg., **57**, Abt. 1, 1903, (45-101).

Astur approximans, eggs. **Le Souëf, D.** Emu, Melbourne, **2**, 1903, (140).

———— *gentilis arrigoni* form nov. **Kleinschmidt, O.** Ornith. Monatsber., Berlin, **11**, 1903, (152-153).

———— *griseogularis: obiensis* n. subsp. Central Moluccas. **Hartert, E.** Nov. Zool., Tring, **10**, 1903, (3).

———— *lopezi* n. sp. Fernando Po. **Alexander, B.** London, Bull. Brit. Ornith. Cl., **13**, 1903, (49).

Buteo en Chili. **Albert, F.** Ornith. Paris, **11**, 1900-1901, [1902], (437-445).

———— *borealis: umbrinus* from the Bahamas. **Bonhote, J. L.** Ibis, London, **1903**, (296-297).

———— *feroz*. Ein neues Mitglied der schweizerischen Ornith. **Fischer-Sigwart, H.** Schweiz. Bl. Ornithol., Zürich, **26**, 1902, (271-272).

———— *lagopus* in Derbyshire. **Fox, W. S.** Zoologist, London, (Ser. 4), **7**, 1903, (268).

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Buteo lagopus, large flight near Scarborough. **Morley, J.** l.c. (433).

———— Ireland. **Williams, E.** Irish Nat., Dublin, **12**, 1903, (111).

Catharista urubri, Massachusetts. **Bent, A. C.** Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (67).

Cathartes aura, James Bay. **Fleming, J. H.** l.c. (66).

Cerchneis cenchroides, eggs. **Le Souëf, D.** Emu, Melbourne, **2**, 1903, (141-142).

Circus cineraceus in Derbyshire. **Fox, W. S.** Zoologist, London, (Ser. 4), **7**, 1903, (268).

———— *cyaneus* in Dorset. **Banks, A.** l.c. (152-153).

———— in Nottinghamshire. **Whitaker, J.** l.c. (459).

Falco, note. **Arbel** Bul. Muséum, Paris, **1903**, (15-18).

———— *atriceps* in Fohkien. **Rickett, C. B.** Ibis, London, **1903**, (218).

———— *candicans* in Orkney. **Grant, J.** Ann. Scot. Nat. Hist., Edinburgh, **1903**, (185).

———— in the Outer Hebrides. **Harvie-Brown, J. A.** l.c. (186).

———— *columbarius richardsonii* in South Carolina. **Wayne, A. T.** Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (67).

———— *lunulatus* Latham, notes. **Hall, R.** Emu, Melbourne, **3**, 1903, (40).

———— *mexicanus*, parental relations. **Cohen, D. A.** Condor, Santa Clara, Cal., **5**, 1903, (117-121).

———— *peregrinus*, strange behaviour in Ireland. **Gough, P.** Zoologist, London, (Ser. 4), **7**, 1903, (433-435).

———— *anatum* in Iowa, habits. **Bailey, B. H.** Des Moines, Proc. Iowa Acad. Sci., **10**, (1902), 1903, (93-98).

———— *subbuteo* in South Warwickshire. **Aplin, O. V.** Zoologist, London, (Ser. 4), **7**, 1903, (351).

———— Bemerkungen. **Besserer, L. Freiherr von.** Ornith. Monatschr., Gera, **28**, 1903, (72-74).

Falco tinnuncius, note. **Corbin**, G. B. Zoologist, London, (Ser. 4), 7, 1903, (267-268).

Haliaetus albicilla in Suffolk. **Tuck**, J. G. Zoologist, London, (Ser. 4), 7, 1903, (107).

———— *carbo* in Pommern. **Platze**, Zs. Ornith., Stettin, 27, 1903, (113-115).

———— *leucocephalus*, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (140).

Haliaetusetus inulatus: *gierrenensis*, H. *sphenurus*, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (140).

Hieracidea orientalis, eggs. **Le Souëf**, D. l.c. (141).

Hierofal o lubradorus, adult plumage. **Mensbier**, M. and **Sushkin**, P. Ibis, London, 1903, (242-245).

Lophoietenia isava, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (141).

Milvus apivius, eggs. **Le Souëf**, D. l.c. (140-141).

———— *ater*, *M. migrans*, *M. niger*, Milan. **Dant**, C. Ornith. Beob., Bern, 2, 1903, (225-227).

———— *ictinus*, vanishing from England. **Salter**, J. H. Zoologist, London (Ser. 4), 7, 1903, (228-229).

Nisaetus morphnoides, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (140).

Ninox occidentalis Ramsay, N. *ocellata* Hombr. and Jacq., note. **Hall**, R. l.c. 3, 1903, (41).

Pandion carolinensis. **Bonhote**, J. L. Avicult. Mag., Brighton, (Ser. 2), 1, 1903, (269-273).

———— *haliaetus*, the Loch-an-Eilein ospreys. **Cash**, C. G. Ann. Scot. Nat. Hist., Edinburgh, 1903, (129-135).

———— in Nottinghamshire. **Whitaker**, J. Zoologist, London, (Ser. 4), 7, 1903, (453).

———— *carolinensis*, flight. **Meyer**, A. J. Country Life in America, New York, N.Y., 1, 1902, (181-182, with text fig.).

———— *leucocephalus*, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (142).

Parabuteo unicinctus harrisi, parental relations. **Bailey**, F. M. Condor, Santa Clara, Cal., 5, 1903, (66-68).

Pernis apivorus, honey buzzard in Argyllshire. **Kirk**, C. Ann. Scot. Nat. Hist., Edinburgh, 1903, (49).

———— honey buzzard in Forfarshire. **Harvie-Brown**, J. A. l.c. (49).

———— in Cheshire. **Oldham**, C. Zoologist, London, (Ser. 4), 7, 1903, (315).

———— in Nottinghamshire. **Whitaker**, J. l.c. (459).

Polyboroides pectoralis n. sp. Camerouns. **Sharpe**, R. B. London. Bull. Brit. Ornith. Cl., 13, 1903, (50).

Pseudogyps africanus nn. subsp. Afrika. **Erlanger**, C. von. Ornith. Monatsber., Berlin, 11, 1903, (22).

Spilornis abbotti n. sp. Sumatra. **Richmond**, C. W. Washington, D.C. Smithsonian Inst., Nation. Mus. Proc., 26, 1903, (485-524).

Tinnunculus orientalis Meyer and Wieglesw. = *T. moluccensis* Pp., *T. occidentalis* is distinct. **Hartert**, L. Nov. Zool., Tring, 10, 1903, (2).

Uroaetus audax, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (139).

Vultur. Carinthia II, Klagenfurt, 91, 1901, (184).

CRYPTURI.

Crypturus tataupa, breeding in confinement. **Seth-Smith**, D. London. Bull. Brit. Ornith. Cl., 14, 1903, (22-23).

GALLIFORMES.

GENERAL.

Les races espagnoles. La Castillane et la Catalane. Par N. Aviculteur, Paris, 23, 1903, (30-32).

Races anglaises (Poules). Par M. d'H. Eleveur, Paris, 19, 1903, (224-226, 235-238, 245-246, av. fig.).

Races de poules espagnoles. Par M. d'H. l.c. (53-54, 77-78, 89-90, 101-152, av. fig.).

Race Dorking. Par M. d'H. l.c. (211-213).

Races de poules italiennes. Par M. d'H. *l.c.* (113-115, 125-126, av. fig.).

Chapel, F. de. Observations sur les variétés de perdrix rouges. Paris, Bul. soc. nat. acclim., **50**, 1903, (84-85).

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Les Wyandottes. *l.c.* (18-20, av. fig.).

Les Dorking. *l.c.* (42-44, av. fig.).

Leghorn. *l.c.* (114-116, 183-185, av. fig.).

Cochinchinois et Bantam de Pékin. *l.c.* (174-176, av. fig.).

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Arenaria interpres. Pacific Ocean. Bryan, W. A. l.c. (210-211).

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Neoscolopax ro:husseni from Obi Id. **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (17).

Numenius arquata, a spotless egg. **Swainson**, E. A. Zoologist, London, (Ser. 4), **7**, 1903, (352).

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Stiltia isabella Viellot, note. **Hall**, R. Emu, Melbourne, **3**, 1903, (43).

Totanus calidris, carrying her young. **Rope**, G. T. Zoologist, London, (Ser. 4), **7**, 1903, (275).

_____ *fuscus* and *T. glareola* in Russian Lapland. **Pearson**, H. J. London, Bull. Brit. Ornith. Cl., **14**, 1903, (31-32).

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_____ feeding habits. **Chase**, A. Oberlin, Ohio, Wilson Bull., (Ornith.), (N. Ser.), **10**, 1903, (38-39).

_____ herring gull capturing a bat. **Rodger**, A. M. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (51).

_____ *canus* breeding at high levels. **Watt**, H. B. l.c. (246).

_____ *fuscus*, breeding. **Mills**, H. H. Zoologist, London, (Ser. 4), **7**, 1903, (317-318).

_____ *marinus*, New York. **Johnson**, W. S. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (303).

_____ *melanocephalus* at Perth. **Laidlaw**, T. G. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (119-120).

Larus minutus, Westpreussen. **Henrici**, F. Ornith. Monatschr., Gera, **28**, 1903, (200-203, 420-421).

_____ little gull in Clyde. **Paterson**, J. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (119).

_____ *philadelphia*. An addition to the birds of middle southern Ohio. **Henninger**, W. F. Oberlin, Ohio, Bull. Agassiz Ass. Wilson Ornith. Ch., (N. Ser.), **9**, 1902, (133).

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Rynchops nigra. **Chapman**, F. M. Country Life in America, New York, N.Y., **3**, 1902, (85-88, with text fig.).

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Stercorarius crepidatus, wintering in Shetland. **Godfrey**, R. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (120).

_____ first record for the Pacific coast of South America. **Nicoll**, M. J. London, Bull. Brit. Ornith. Cl., **14**, 1933, (18).

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_____ *pomatorhinus*, pomaterhine skua at Loch Lomond. **Kirk**, C. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (51).

_____ pomaterhine skua on the Nith. **Service**, R. l.c. (51).

Sterna. Massachusetts. **Jones**, L. Oberlin, Ohio, Wilson Bull. (Ornith.), (N. Ser.), **10**, 1903, (94-100).

_____ *caspia* von Deep bei Kolberg. **Nehring**, A. Ornith. Monatsber., Berlin, **11**, 1903, (165-166).

_____ *fuliginosa* in Suffolk. **Clarke**, W. G. Zoologist, London, (Ser. 4), **7**, 1903, (394).

_____ *hirundo* in California. **Littlejohn**, C. Condor, Santa Clara, Cal., **5**, 1903, (81).

_____ *paradisaea* in southern California. **Daggett**, Frank S. l.c. (17).

_____ *zimmermanni* n. sp. Kiautschou. **Reichenow**, A. Ornith. Monatsber., Berlin, **11**, 1903, (81-87).

Xema sabini. California. **Breninger**, G. F. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (433).

_____ near Scarborough. **Clarke**, W. J. Zoologist, London, (Ser. 4), **7**, 1903, (394).

_____ in Yorkshire. **Tuck**, J. G. l.c. (353, 394, 395, 436).

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Alle alle. New York. **Burtis**, H. M. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (203).

Plautus impennis in North America. **Lucas**, F. A. Science, New York, N.Y., (N. Ser.), **17**, 1903, (311-312).

Ptychoramphus aleuticus. **Robertson** II. Condor, Santa Clara, Cal., **5**, 1903, (96-97).

Uria californica, habits. **Grinnell**, J. l.c. (20).

_____ *troile* in Rhode Island. **Howe**, R. H., jun. Rhode Island, Ornith., Bristol, R.I., **2**, 1901, (11).

_____ Die ornithologische Nomenklatur. (Schwedisch). **Pousar**, V. Tidskr. Jäg. Fisk., Helsingfors, **1903**, **2**, (62-63).

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_____ variation. **Warren**, R. l.c. (194).

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Columba, relations sexuelles. **Iverus**, T. D. Helsingfors, Comptes rendus du Congrès des Naturalistes et Médecins du

Nord tenu à Helsingfors du 7 au 12 juillet 1902, **1903**, VI Section, (38-39).

Columba aenas in the Isle of Man. **Graves**, F. S. Zoologist, London, (Ser. 4), **7**, 1903, (316-317).

_____ *albertisii*: *exsul*. n. subsp. Eastern Archipelago. **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (60-61).

_____ *faciata*. **Gilman**, M. F. Condor, Santa Clara, Cal., **5**, 1903, (134-135).

_____ *habits*. **Sharp**, C. S. *l.c.* (16).

_____ *liria*, inland in Somerset. **Lewis**, S. Zoologist, London, (Ser. 4), **7**, 1903, (108).

_____ *domestica*, Oekologie. **Gough**, L. J. Ornith., Leipzig, **51**, 1903, (257-258).

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Bogengangsapparat. **Rawitz**, B. Arch. Anat. Physiol., Leipzig, Physiol. Abt., **1903**, (105-108).

Nest aus Nähadeln. **Schmitz**, H. Natur u. Offenb., Münster, **49**, 1903, (107-109).

Stejneger. Messenger Suisse Rom., Fribourg, **16**, 1903, (219-220, 225-226, 234-235, 241-242, 249-250).

_____ *palumbus*, *C. aenas* Beobachtungen. **Parrot**, [C.]. München, Jahresber. ornith. Ver., **3**, (1901, 1902), 1903, (347-384).

_____ hybridization. **Podmore**, P. St. M. Zoologist, London, (Ser. 4), **7**, 1903, (401-406, pl. VII).

_____ nest on the ground. **Tait**, T. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (186).

_____ *phasma* n. nom. = *C. grisea* Bonaparte not Bonaterre. **Richmond**, C. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (490).

Columbigallina passerina: *afatida* n. subsp. W. Indies. **Palmer**, W. and **Riley**, J. H. Washington, D.C., Proc. Biol. Soc., 1902, **15**, (33-34).

Ectopistes migratorius. North America. **Fleming**, J. H. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (66).

Geopelia cuneata Latham. *G. temmick*, note. **Hall**, R. Emu, Melbourne, **3**, 1903, (42).

_____ *G. humeralis*, *G. tranquilla*, eggs. **Le Souëf**, D. *l.c.* **2**, 1903, (154).

Geothlypis chapalensis n. sp. **Nelson**, E. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (151-160).

Geotrygon albifacies: *rubida*, n. subsp. **Nelson**, E. W. *l.c.* (151-160).

_____ *sabae* n. sp. West Indies. **Riley**, J. H. *l.c.* (13-14).

Haplopelia poensis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (33).

Histiophaps histrionica, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (154).

Lophophaps leucogaster, eggs. **Le Souëf**, D. *l.c.* **2**, 1903, (154).

Myristicivora spilorrhoea, eggs. **Le Souëf**, D. *l.c.* (153-154).

_____ from Oyster Cay, N. Queensland. **Cornwall**, E. M. *l.c.* **3**, 1903, (47).

Ptilinopus melanocephala: *aurecentior* n. subsp. Eastern Archipelago. **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (33-34).

Ptilopus centralis n. sp. Celebes. **Meljer**, A. B. Leiden, Notes Mus. Jentink., **23**, 1903, (185-189).

_____ *ewingi*, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (153).

Turtur capicola tropica n. consp. **Reichenow**, A. Ornith. Monatsber., Berlin, **11**, 1903, (139-140).

Zenaidura macroura: *bella* n. subsp. W. Indies. **Palmer**, W. and **Riley**, J. H. Washington, D.C., Proc. Biol. Soc., 1902, **15**, (33-34).

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Merrill, S. On birds new to Palestine. Ibis, London, **1903**, (324-330).

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Centropus phasianus, eggs. **Le Souëf, D.** Emu, Melbourne, **2**, 1903, (152).

Coccyzus americanus in Merula's nest. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (68).

Cuculus canorus, Samarkand. **Hoffmann, E.** Ornith. Monatsber., Berlin, **11**, 1903, (119-120).

Lebensweise. **Hesse, R.** Stuttgart, Jahreshfte Ver. Natk., **59**, 1903, (XCIV-XCV).

Lebensweise. **Liemann, M.** Aus d. Heimat, Stuttgart, **16**, 1903, (81-86, 113-122).

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late occurrence in Scotland. **Payne, J. W.** Zoologist, London, (Ser. 4), **7**, 1903, (351-352).

Eudynamis cyanocephala Latham, note. **Hall, R.** Emu, Melbourne, **3**, 1903, (42).

Geococcyx californianus, parental relations. **Kelsey, F. W.** Condor, Santa Clara, Cal., **5**, 1903 (132-133).

Pharomacrus mocinna. **Cronau, R.** Harper's Magazine, New York and London, **104**, 1901, (155-161, with text fig.).

Phoenicophaeus calorhynchus : *rufiloris* n. subsp. Eastern Archipelago. **Hartert, E.** Nov. Zool., Tring, **10**, 1903, (24).

Ruuezenorornis n. gen. Central Africa. **Neumann, O.** London, Bull. Brit. Ornith. Cl., **14**, 1903, (14-15).

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Coeligena clemenciae, nests and eggs. **Breninger**, G. F. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (435).

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Centurus nyeanus Ridgway. **Riley**, J. H. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (434).

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Chrysophlegma ricketti in Fohkien. **Rickett**, C. B. Ibis, London, **1903**, (217).

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———— *longipennis* Reichenow, *P. reichenowi* Madarasz, remarks. **Sharpe**, R. B. Ibis, London, **1903**, (91-93, pl. IV).

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———— *ruficentris* in Batchian. Halmahera and Obi Id. **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (13).

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Empidonax traillii alnorum. New Jersey. **Miller, W. D. W.** Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (68).

Mionectes olivaceus: galbinus n. subsp. Colombia. **Bangs, O.** Cambridge, Mass., Proc. New Engl. Zool. Cl., **3**, 1902, (81-90).

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Sayornis amnicola n. sp. Panama. **Bangs, O.** l.c. (15-70).

————— *nigricans semiatra*, habits. **Adams, E.** Condor, Santa Clara, Cal., **5**, 1903, (19).

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Premnoplex coloratus n. sp. Colombia. **Bangs, O.** Cambridge, Mass., Proc. New Engl. Zool. Cl., **3**, 1902, (81-90).

Sclerurus mexicanus: pullus n. subsp. Panama. **Bangs, O.** l.c. (45, 46).

Siptornis certhia n. sp. **Madarász, J.** Budapest, Ann. Hist.-Nat. Mus. Nat. Hung., **1**, 1903, (463).

Sittasomus levis n. sp. Panama. **Bangs, O.** Cambridge, Mass., Proc. New Engl. Zool. Cl., **3**, 1902, (15-70).

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Grallaricula vegeta n. sp. Panama. **Bangs, O.** Cambridge, Mass. Proc. New Engl. Zool. Cl., **3**, 1902, (15-70).

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Alauda arborea in West Suffolk. **Tuck, T. G.** Zoologist, London, (Ser. 4), 7, 1903, (72-73).

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Ammomanes heterura n. sp. **Madarász, J.** von. Ornith. Monatsber., Berlin, 11, 1903, (91).

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———— in the Isle of Man. **Ralfe, P. S.** l.c. (266).

———— visiting Bartragh Island, Killala Bay. **Warren, R.** Zoologist, London, (Ser. 4), 7, 1903, (190).

———— *borealis* in Yorkshire. **Clarke, E.** London, Bull. Brit. Ornith. Cl., 13, 1903, (68-69).

———— and *M. feldcgg* in Sussex. **Butterfield, W. R.** l.c. (69).

———— *flava* in Sussex. **Ticehurst, N. F.** l.c. (78).

———— *lugubris*, nesting. **Butler, S. A.** Zoologist, London, (Ser. 4), 7, 1903, (315).

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Timeliidae.

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Calamanthus montanellus n. sp. W. Australia. **Milligan, A. Wm.** Emu, Melbourne, 2, 1903, (200-201).

Crateropus smithi nn. subsp. Africa. **Neumann, O.** London, Bull. Brit. Ornith. Cl., 14, 1903, (15).

Cyanoderma fulviventris n. sp. Sumatra. **Richmond, C. W.** Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., 26, 1903, (485-524).

Hemiura leucogastra: musica n. subsp. **Nelson, E. W.** Washington, D.C., Proc. Biol. Soc., 16, 1903, (151-160).

Macrosphenus poensis n. sp. Fernando Po. **Alexander, B.** London, Bull. Brit. Ornith. Cl., 13, 1903, (36); Ibis, London, 1903, (362).

Malacias capistrata. **Phillips, R.** Avicult. Mag., Brighton, (Ser. 2), 1, 1903, (255-262, cum tab.).

Mesia argentoris. **Phillips, R.** l.c. (379-390).

———— young specimens. **Finn, F.** London, Bull. Brit. Ornith. Cl., 14, 1903, (24).

Myiophonus temminckii. **Astley**, H. D. *Avicult. Mag.*, Brighton, (Ser. 2), **1**, 1903, (196-201, cum tab.).

Pomatorhinus rubeculus Gould, note. **Hall**, R. *Emu*, Melbourne, **3**, 1903, (41).

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Proparus sordidior n. sp. China. **Rippon**, G. *I. c.* **13**, 1903, (60).

Psittiparus gularis: *hainanus* n. subsp. Hainan. **Rothschild**, Hon. W. *I. c.* **14**, 1903, (7).

Pyctorhis sinensis, notes. **Phillippe**, R. *Avicult. Mag.*, Brighton, (Ser. 2), **1**, 1903, (83-87, cum tab.).

Stachyridopsis ruficeps: *goodsoni* n. subsp. Hainan. **Rothschild**, Hon. W. London, *Bull. Brit. Ornith. Cl.*, **14**, 1903, (8-9).

Stachyris chrysops n. sp. Siam. **Richmond**, C. W. Washington, D.C., *Proc. Biol. Soc.*, **15**, 1902, (157-158).

———— *guttata*: *sinhoei* n. subsp. Hainan. **Rothschild**, Hon. W. London, *Bull. Brit. Ornith. Cl.*, **14**, 1903, (8).

Suthora craddocki n. sp. Mekong valley. **Bingham**, C. T. *I. c.* **13**, 1903, (54-55).

———— *atyani* n. sp. China. **Rippon**, G. *I. c.* (54).

———— *thompsoni* n. sp. **Bingham**, C. T. *I. c.* (63).

Trochalopteron canorum: *oustoni* n. subsp. Hainan. **Rothschild**, Hon. W. *I. c.* **14**, 1903, (8).

Pycnonotidae.

Bleda alfredi n. sp. Nyasa-land. **Shelley**, G. E. London, *Bull. Brit. Ornith. Cl.*, **13**, 1903, (61).

———— *latesi* n. sp. Camaroons. **Sharpe**, R. B. *I. c.* **14**, 1903, (19).

Criniger lucani n. sp. Central Molluccas. **Hartert**, E. *Nov. Zool., Tring*, **10**, 1903, (13).

Hypsipetes psaroides. **Page**, W. T. *Avicult. Mag.*, Brighton, (Ser. 2), **1**, 1903, (209-211).

Phyllostrophus poensis n. sp. Fernando Po. **Alexander**, B. London, *Bull. Brit. Ornith. Cl.*, **13**, 1903, (35); *Ibis*, London, **1903**, (364-365).

Stelgidillas poensis n. sp. Fernando Po. **Alexander**, B. London, *Bull. Brit. Ornith. Cl.*, **13**, 1903, (35); *Ibis*, London, **1903**, (863).

Muscicapidae.

Alcippe stictigula n. sp. Nyasa-land. **Shelley**, G. E. London, *Bull. Brit. Ornith. Cl.*, **13**, 1903, (61).

Aleonax poensis n. sp. Fernando Po. **Alexander**, B. *I. c.* **14**, 1903, (17-18).

Arses telescopthalmus and its allies. **Rothschild**, W. and **Hartert**, E. *Nov. Zool., Tring*, **10**, 1903, (460-462).

Batis poensis n. sp. Fernando Po. **Alexander**, B. London, *Bull. Brit. Ornith. Cl.*, **13**, 1903, (34); *Ibis*, London, **1903**, (386-387).

Cryptolopha everetti: *vaterstradti* n. subsp. Central Molluccas. **Hartert**, E. *Nov. Zool., Tring*, **10**, 1903, (9-10).

———— *herberti* n. sp. Fernando Po. **Alexander**, B. London, *Bull. Brit. Ornith. Cl.*, **13**, 1903, (35); *Ibis*, London, **1903**, (371).

———— *mindanensis* n. sp. Philippines. **Hartert**, E. London, *Bull. Brit. Ornith. Cl.*, **14**, 1903, (12).

———— *waigiuensis* n. sp. Waigiou. **Hartert**, E. *I. c.* **13**, 1903, (70).

Diaphorophya chlorophrys n. sp. Fernando Po. **Alexander**, B. *I. c.* (34); *Ibis*, London, **1903**, (385-386).

Gerygone neglecta: *dohertyi* n. subsp. Papua. **Rothschild**, Hon. W. and **Hartert**, E. *Nov. Zool., Tring*, **10**, 1903, (473).

Lioptilus claudeni n. sp. Fernando Po. **Alexander**, B. London, *Bull. Brit. Ornith. Cl.*, **13**, 1903; *Ibis*, London, **1903**, (382).

Microeca griseiceps: *occidentalis* n. subsp. Papua. **Rothschild**, Hon. W. and **Hartert**, E. *Nov. Zool., Tring*, **10**, 1903, (471).

Monarcha inornata and its allies.
Hartert, E. *l.c.* (26).

—— *menckei* n. sp. **Heinroth**,
O. J. Ornith., Leipzig, 1902, (451-452).

Muscicapa atricapilla. **Hermann**, R.
Ornith. Monatschr., Gera, 28, 1903,
(356-359, mit 1 Taf.).

—— *lcmbeiyi* Gundlach. Florida.
Howe, R. H., jun. Washington, D.C.,
Proc. Biol. Soc., 16, 1903, (51).

—— *parva*. **Hermann**, R.
Natur u. Haus, Dresden, 11, 1903,
(353-355).

Muscicapa hyperythra: *pallidipectus* n. subsp. Eastern Archipelago.
Hartert, E. Nov. Zool., Tring, 10, 1903,
(52-53).

Myiagra galeata and its allies.
Hartert, E. *l.c.* (9).

Piezorhynchus nitidus, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903,
(144).

Pseudogerygone brunneipectus, P.
chloronota, P. *laetigastera*, eggs. **Le Souëf**, D. *l.c.* (114-115).

Rhinomyias umbratilis: *richmondi* n. subsp. **Stone**, W. Philadelphia, Pa.,
Proc. Acad. Nat. Sci., 54, 1902, (670-691).

Rhipidura diemenensis in Tasmania, note. **Little**, F. M. Emu, Melbourne, 3, 1903, (26-27).

—— *dryas*, R. *phasiana*, description of eggs. **Le Souëf**, D. *l.c.* (54-55).

—— *matthiae* n. sp. **Heinroth**,
O. J. Ornith., Leipzig, 1902, (457).

—— *nigrocinnamomea* n. sp.
Philippines. **Hartert**, E. London,
Bull. Brit. Ornith. Cl., 14, 1903, (12).

—— *tricolor*, eggs. **Le Souëf**,
D. Emu, Melbourne, 2, 1903, (143).

Siphia hoërelli n. sp. Celebes.
Meljer, A. B. Leiden, Notes Mus.
Jentink, 23, 1903, (185-189).

Sisura inquieta, eggs. **Le Souëf**, D.
Emu, Melbourne, 2, 1903, (143).

Smithornis sharpei n. sp. Fernando
Po. **Alexander**, B. London, Bull.
Brit. Ornith. Cl., 13, 1903, (34); Ibis,
London, 1903, (384-385).

—— *zenkeri* n. sp. Afrika.
Reichenow, [A.] Ornith. Monatsber.,
Berlin, 10, 1902, (8); 11, 1903, (40-41).

(N 3-9053)

Stoparola panayensis in Obi Major
Id. **Hartert**, E. Nov. Zool., Tring,
10, 1903, (10).

Tchitrea procesa n. sp. Sumatra.
Richmond, C. W. Washington, D.C.,
Smithsonian Inst., Nation. Mus. Proc.,
26, 1903, (485-524).

Todopsis cyanocephalus: *dohertyi*
n. subsp. Papua. **Rothschild**, Hon. W.
and **Hartert**, E. Nov. Zool., Tring, 10,
1903, (477).

Turdidae.

GENERAL.

Aplin, O. V. On the courting of the
robin. Ibis, London, 1903, (132-133).

Dresser, H. E. On some rare or un-
figured eggs of Palaearctic birds. *l.c.*
(88-89, pl. III).

Otto, W. Das Blaukehlchen. Schweiz.
Bl. Ornithol., Zürich, 27, 1903, (311,
313, mit 1 fig.).

Raspail, X. Le chant matinal du
Merle noir. Ornith. Paris, 11, 1900-
1901, [1902], (433-436).

Weber, S. A. Das Blaukehlchen.
Ornithol. Beob., Bern, 1, 1902, (181-
182, 189-190).

Winteler, J. Die Wachholderdrossel
als Brutvogel auch im der Schweiz.
l.c. 2, 1903, (149, 193-194).

Whitaker, J. I. S. On the proper
names of the two forms of black-eared
chats. Ibis, London, 1903, (408-410).

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Alcedo moori n. sp. Fernando Po.
Alexander, B. London, Bull. Brit.
Ornith. Cl., 13, 1903, (37); Ibis,
London, 1903, (377-378).

Calamocichla cunensis n. sp. Damara
Land. **Hartert**, E. London, Bull.
Brit. Ornith. Cl., 13, 1903, (62).

—— *poensis* n. sp. Fernando
Po. **Alexander**, B. London, Bull.
Brit. Ornith. Cl., 13, 1903, (37); Ibis,
London, 1903, (376-377).

Callene nn. spp. Fernando Po.
Alexander, B. London, Bull. Brit.
Ornith. Cl., 13, 1903, (37); Ibis,
London, 1903, (380-381).

Callene nn. spp. Nyasa-land.
Shelley, G. E. London, Bull. Brit. Ornith. Cl., **13**, 1903, (60-61).

Calliope kamtechathkensis taken in the Pacific Ocean. **McGregor**, R. Condor, Santa Clara, Cal., **5**, 1903, (19).

Catharus gracilirostris: *accentor* n. subsp. Panama. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., **3**, 1902, (15-70).

Cisticola exilis Vigors and Horsfield, note. **Hall**, R. Emu, Melbourne, **3**, 1903, (41).

Cyanecula suecica near Eastbourne. **Arnold**, E. C. Zoologist, London, (Ser. 4), **7**, 1903, (389).

———— **Otto**, W. Schweiz. Bl. Ornithol., Zurich, **27**, 1903, (311, 313, 1 fig.).

———— **Weber**, S. A. Ornithol. Beob., Bern, **1**, 1902, (181-182, 189-190).

———— *wolfi*, British example at Scarborough. **Nelson**, T. H. Zoologist, London, (Ser. 4), **7**, 1903, (23).

———— British examples. **Nicholl**, M. J. L.c. (431).

Daulias luscina, late arrival in Somerset. **Lewis**, G. L.c. (220).

Erithacus cairii = *titys*. **Bau**, A. Ornith. Monatsber., Berlin, **11**, 1903, (113-114).

———— *gutturalis* in S. Persia. **Witherby**, H. F. London, Bull. Brit. Ornith. Cl., **13**, 1903, (62).

———— *rubecula* and its allies. **Hartert**, E. London, Bull. Brit. Ornith. Cl., **13**, 1903, (71).

———— *tithys* L., eigentümlicher Nistplatz. **Koepfer**, Ornith. Monatsber., Berlin, **11**, 1903, (140).

Geocichla macrorhyncha in Tasmania, notes. **Little**, F. M. Emu, Melbourne, **3**, 1903, (81-82).

Hylocichla guttata pallasii. Ohio. **Jones**, L. Oberlin, Ohio, Wilson Bull., (Ornith.), (N. Ser.), **10**, 1903, (112-113).

Ixoreus, on the generic name. **Sclater**, P. L. Ibis, London, **1903**, (142).

Luscinia philomela, Unterschied zwischen Männchen und Weibchen und zwischen jüngeren Sprossern und älteren. **Kisch**, O. M. Gefied. Welt, Magdeburg, **32**, 1903, (309-310).

Megalurus striatus n. sp. W. Australia. **Milligan**, A. W. Emu, Melbourne, **2**, 1903, (201-202).

Merula, colour. Oberlin Ohio, Bull. Agassiz Ass. Wilson Ornith. Ch., (N. Ser.), **9**, 1902, (109).

———— *algira* n. sp. **Madarász**, J. Budapest. Ann. Hist.-Nat. Mus. Nat. Hung., **1**, 1903, (559).

———— *aterrima* n. sp. **Madarász**, J. von. Ornith. Monatsber., Berlin, **11**, 1903, (186).

———— *baraka* n. sp. Equatorial Africa. **Sharpe**, R. B. London, Bull. Brit. Ornith. Cl., **14**, 1903, (19).

———— *merula*, nesting sites. **Service**, R. Zoologist, London, (Ser. 4), **7**, 1903, (69-70).

———— laying on the ground. **Godfrey**, R. L.c. (70).

Myadestes townsendii, nesting. **Anthony**, A. W. Condor, Santa Clara, Cal., **5**, 1903, (10-12).

Oreocincla horefieldi: *affinis* n. subsp. Siam. **Richmond**, C. W. Washington, D.C., Proc. Biol. Soc., **15**, 1902, (157-158).

Petroeca ramsayi, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (144).

Poliophtila nn. spp. Mexico, Nicaragua, Costa Rica. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **26**, 1903, (109-110).

———— *caerulea* Massachusetts. **Allen**, F. W. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (69).

Ruticilla tithys L. **Gengler**, J. Ornith. Monatschr., Gera, **23**, 1903, (414-420).

———— *nigra* n. sp. Sardinia. **Giglioli**, H. H. London, Bull. Brit. Ornith. Cl., **13**, 1903, (79); Ibis, London, **1903**, (581-584).

———— *phoenicura*, notes sur sa vie intime dans le Perche. **Roboussin**, R. Ornith. Paris, **11**, 1900-1901, [1902], (461-464).

———— *tithys* in Dorsetshire. **Cambridge**, O. P. Zoologist, London, (Ser. 4), **7**, 1903, (454-455).

———— and *R. phoenicura*, Beobachtungen. **Parrot**, [C.]. München, Jahresber. ornith. Ver., **3**, (1901-1902), 1903, (347-354).

Ruticilla titys *R. phoenicurus*.
Schuster, L. Ornith Monatschr., Gera,
28, 1903, (270-272).

Sialia. Bruen, F. Oberlin, Ohio,
Bull. Agassiz Ass. Wilson Ornith. Ch.,
(N. Ser.), 9, 1902, (121-123).

— *arctica*. Colorado. Hender-
son, J. Oberlin, Ohio, Wilson, Bull.
(Ornith.), (N. Ser.), 10, 1903, (74-75).

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subsp. Nelson, E. W. Washington,
D.C., Proc. Biol. Soc., 16, 1903, (151-
160).

Turdus, Wechsel des Bestandes in
Erlangen und Umgebung in den letzten
20 Jahren. Gengler, J. München,
Jahresber. ornith. Ver., 3, (1901-1902),
1903, (85-87).

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Hartert, E. London, Bull. Brit. Ornith.
Cl., 13, 1903, (71).

— — — — — Koepert. Ornith.
Monatschr., Gera, 28, 1903, (322-329,
350-356, 411-414),

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schädling. Ludwig, F. Zs. Pflanzen-
krankh., Stuttgart, 13, 1903, (210-213).

— — — — — laying on the
ground. Read, R. Zoologist, London,
(Ser. 4), 7, 1903, (23).

— — — — — Familienleben.
Thiele, H. Ornith. Monatschr., Gera,
28, 1903, (372-373).

— *musicus*, nesting sites.
Service, R. Zoologist, London, (Ser. 4),
7, 1903, (69-70).

— — — — — abnormer Form.
Thienemann, J. Ornith. Monatsber.,
Berlin, 11, 1903, (4-5).

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drossel als Brutvogel auch in der
Schweiz. Winteler, J. Ornithol. Beob.,
Bern, 2, 1903, (149, 193-194).

— *poensis* n. sp. Fernando
Po. Alexander, B. London, Bull. Brit.
Ornith. Cl., 13, 1903, (37); Ibis,
London, 1903, (381-382).

— *torquatus*, nid. Besnard.
Mans (le), Bul. soc. agricult. sci., (sér. 2,
30), 38, 1901-1902, (144-147).

— *viscivorus*, strange nesting-
place. Whitaker, J. Zoologist, London,
(Ser. 4), 7, 1903, (226).

Turdus viscivorus, strange nesting-
place. Pentland, G. H. l.c. (312).

— *whitei* in Halifax. Crab-
tree, A. Halifax Nat., 7, 1903, (101-
103, cum. fig.).

Syivildae.

Acanthiza pallida n. sp. Western
Australia. Milligan, A. Wm. Emu,
Melbourne, 3, 1903, (111-112).

— *robustirostris* Milligan, A.
tenuirostris Zietz, A. *uropygialis*
Gould, nests and nestlings. Milligan,
A. Wm. l.c. (102-104).

— *magisterostris* n. sp. Camp-
bell, A. J. l.c. 2, (202-203).

— *robustirostris* n. sp. W.
Australia. Milligan, A. Wm. l.c. 3,
1903, (71-72).

Acrocephalus aquaticus, a new Irish
bird. Barrington, R. M. Irish Nat.,
Dublin, 12, 1902, (300).

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roth, O. J. Ornith., Leipzig, 1903
(125).

— *palustris* nesting in Sussex.
Field, W. London, Bull. Brit. Ornith.
Cl., 14, 1903, (23).

— *phragmitis*, note. Ellison,
C. Zoologist, London, (Ser. 4), 7, 1903,
(189).

— *turdoides* (great reed-
warbler) occurring for first time in
Sussex. Nicoll, M. J. London, Bull.
Brit. Ornith. Cl., 14, 1903, (18).

Apalis lopezi n. sp. Fernando Po.
Alexander, B. London, Bull. Brit.
Ornith. Cl., 13, 1903, (35); Ibis, London,
1903, (373, pl. IX, fig. 1).

Camaroptera granti n. sp. Fernando
Po. Alexander, B. London, Bull. Brit.
Ornith. Cl., 13, 1903, (36); Ibis, London,
1903, (369).

Cisticola cisticola: *mauritanica* n.
subsp. Algeria. Whitaker, J. I. S.
London, Bull. Brit. Ornith. Cl., 14, 1903,
(19-20).

Dendroica aestiva brewsteri n. nom.
Grinnell, J. Condor, Santa Clara, Cal.,
5, 1903, (71-73).

Euprinodes sclateri n. sp. Fernando
Po. Alexander, B. London, Bull. Brit.
Ornith. Cl., 13, 1903, (36).

Helinaia swainsonii, nest and eggs. Georgia **Cleckley**, M. T. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (438-439).

Hylia poensis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (36).

Locustella naevia in the Isle of Man. **Graves**, F. S. Zoologist, London, (Ser. 4), **7**, 1903, (313).

Luscinola neglecta, nest from S. W. Persia. **Wetherby**, H. F. London, Bull. Brit. Ornith. Cl., **13**, 1903, (62).

Malurus cyaneus, *M. gouldi* in Tasmania, note. **Little**, F. M. Emu, Melbourne, **3**, 1903, (27-30).

——— *dorsalis*, eggs. **Le Souëf**, D. l.c. (145-146).

Phlexis lojezi n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (48).

Phylloscopus bonellii. **Burg**, O. von. München, Jahresber. ornith. Ver., **3**, (1901, 1902), 1903, (73-80).

——— *borealis*. Russian Lapland. **Pearson**, H. J. London, Bull. Brit. Ornith. Cl., **14**, 1903, (22).

——— *rufus silvestris* Meissner. **Berge**, R. Ornith. Monatschr., Gera, **28**, 1903, (429-430).

Flörcke, C. Gefied. Welt, Magdeburg, **32**, 1903, (59-60).

——— *viridanus* Blyth. Orkney. **Clarke**, W. E. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (22-26).

Poiochais n. gen., *P. helenorae* n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (36); Ibis, London, **1903**, (368-369).

Sericornis pusilla n. sp. Papua. **Rothschild**, Hon. W. and **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (228).

Spiloptila malopenensis n. sp. Mashonaland. **Sharpe**, R. B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (80).

Stiphornis xanthogaster n. sp. Camaroon. **Sharpe**, R. B. l.c. **14**, 1903, (19).

Sylvia cinerea. Messenger Suisse Rom., Fribourg, **15**, 1902, (194-195, av. 1 pl.).

——— *curruca* in Cardiganshire. **Salter**, J. H. Zoologist, London, (Ser. 4), **7**, 1903, (226-227).

Sylvia orpheus Temm. occurring in Sussex. **Butterfield**, W. R. London, Bull. Brit. Ornith. Cl., **14**, 1903, (16-17).

——— *undata* in Shropshire, **Forrest**, H. E. Zoologist, London, (Ser. 4), **7**, 1903, (349-350).

——— Northern breeding range. **Jourdain**, F. C. R. l.c. (423-425).

Urolais n. gen., *U. mariae* n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (35); Ibis, London, **1903**, (374-375).

Wilsonia pusilla in California. **Grinnell**, J. Condor, Santa Clara, Cal., **5**, 1903, (80-81).

Regulidae.

Regulus ignicapillus in Lancashire. **Collins**, J. Zoologist, London, (Ser. 4), **7**, 1903, (455).

——— *regulus*. **Schuster**, W. Ornith. Monatschr., Gera, **28**, 1903, (345).

Cinclididae.

Cinclus nn. spp. **Madarász**, J. Budapest, Ann. Hist. Nat. Mus. Nat. Hung., **1**, 1903, (559-560).

——— *aquaticus*, nesting in a tree. **Tait**, T. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (185).

——— *olympicus* n. sp. Cyprus. **Madarász**, J. von. Ornith. Monatsber., Berlin, **11**, 1903, (5-6).

——— *siemsceni* n. sp. Südost-China. **Martens**, G. H. Ornith. Monatsber., Berlin, **11**, 1903, (186-187).

Troglodytidae.

Anorthura cypristes n. sp. Cyprus. **Bate**, D. M. A. London, Bull. Brit. Ornith. Cl., **13**, 1903, (51-52).

Catherpes polioptilus n. subsp. **Oberholser**, H. C. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (196-198).

Cistothorus palustris plesius in California. **Grinnell**, J. Condor, Santa Clara, Cal., **5**, 1903, (123-134).

——— *polyglottus*: *lucidus* n. subsp. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (169).

Heleodytes nelsoni n. sp. S. Mexico. **Ridgway**, R. l.c. (111).

Henicorhina nn. subsp. Ecuador, Colombia, Mexico. **Ridgway**, R. l.c. (168-169).

———— *collina* n. sp. Panama. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., **3**, 1902, (55-56).

———— *inornata* n. sp. **Hellmayr**, C. J. Ornith., Leipzig, **51**, 1903, (527-539).

———— *leucophrys*: *festiva* n. subsp. **Nelson**, E. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (158).

Microcerculus acentetus n. sp. Panama. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., **3**, 1902, (15-70).

———— *corrasus* n. sp. Colombia. **Bangs**, O. l.c. (81-90).

Mimus polyglottos. **Daniels**, J. W., jun. Oberlin, Ohio, Bull. Agassiz Ass. Wilson Ornith. Ch., (N. Ser.), **9**, 1902, (68-71).

Phryothorus ludovicianus. Massachusetts. **Durfee**, O. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (69).

Salpinctes nn. subsp. Guatemala, Mexico. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (168-169).

Telmatodytes palustris: *iliacus* n. subsp. Indiana. **Ridgway**, R. l.c. (110).

———— *thyrophilus* n. subsp. Louisiana, Texas. **Oberholser**, H. C. l.c. (149-150).

Thyrophilus nn. subsp. Nicaragua, Chiapas, Ecuador. **Ridgway**, R. l.c. (167-168).

———— *galbraithi*: *conditus* n. subsp. Columbia. **Bangs**, O. Cambridge, Mass. Proc. New Engl. Zool. Cl., **4**, 1903, (3-4).

———— *modestus*: *elutus* n. subsp. Panama. **Bangs**, O. l.c. **3**, 1902, (15-70).

———— *sinaloa*: *russeus* n. subsp. **Nelson**, E. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (151-160).

Troglodytes browni n. sp. Panama. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., **3**, 1902, (15-70).

Troglodytes brunneicollis: *nitidus* n. subsp. **Nelson**, E. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (151-160).

———— *parvulus*. **Berger**, K. Nistplatz. Gefied. Welt, Magdeburg, **32**, 1903, (282-283).

———— *Daut*, C. Ornithol. Beob., Bern, **1**, 1902, (77-78, 84-85, 92-93).

Urochichla reptata n. sp. Mekong valley. **Bingham**, C. T. London, Bull. Brit. Ornith. Cl., **13**, 1903, (55-56).

Chamaeidae.

Chamaea fasciata: *rufula* n. subsp. Central California. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (109).

Hirundinidae.

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Fischer-Sigwart, H. Segler und Schwalben im Jahr 1902. Schweiz. Bl. Ornithol., Zürich, **27**, 1903, (186-187, 199-200).

Hennemann, W. Ueber die Schwalben und Segler des mittleren Lennetals i. J. 1901. Münster, Jahresber. ProvVer. Wiss., **30**, (1901-02), 1902, (71-73).

Siépi, P. Hirondelle blanche. Feuille jeunes natural., Paris, (sér. 4), **33**, 1903, (223).

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Atopochelidon n. gen., type, *A. fucata* Temminck. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (106).

Chelidon urbica, late appearance at Eastbourne. **Bannerman**, D. A. Zoologist, London, (Ser. 4), **7**, 1903, (455-456).

———— arrival in March. **Riviere**, B. B. l.c. (152).

Chelidonaria urbica, Beobachtungen. **Besserer**, L. Freiherr von. München, Jahresber. ornith. Ver., **3**, (1901-1902), 1903, (294-346).

Diplochelidon n. gen., type *Hirundo melanoleuca* Maximilian. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (106).

♂ *Hirundo*, instinct. **Chateau**, E. Autun, Bul. soc. sci. nat., 15, 1902, (Proc.-verb., 219-220).

———— construction de nids. **Inerus**, J. P. Helsingfors, Comptes rendus du Congrès des Naturalistes et Médecins du Nord tenu à Helsingfors du 7 au 12 Juillet, 1902, 1903, VI Section (37-38).

———— *riparia*, Verbreitung im südlichen Bayern. **Ries**, A. München, Jahresber. ornith. Ver., 3, (1901, 1902), 903, (82-84).

———— *rustica*, Beobachtungen. **Besserer**, L. Freiherr von. Lc. (294-346).

———— in Ireland in March. **Ussher**, R. J. Irish Nat., Dublin, 12, 1903, (198).

———— *urbica*, abweichende Niststätten und Nistweisen. **Christoleit**, E. Ornith. Monatschr., Gera, 28, 1903, (141-143).

———— *Hornung*, V. Ornith. Monatschr., Gera, 28, 1903, (261-262).

Lamprochelidon n. gen., type *L. melanoleuca* (Max). **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., 16, 1903, (106).

Orochelidon n. gen., type *O. murina* Cassin. **Ridgway**, R. Lc. (106).

Petrochelidon ariel, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (148).

———— *lunifrons*: *tachina* n. subsp. Texas. **Oberholser**, H. C. Washington, D.C., Proc. Biol. Soc., 16, 1903, (15-16).

Progne purpurea, mortality at Brattleboro. **Horton**, F. B. Auk, Cambridge, Mass., (N. Ser.), 20, 1903, (435-436).

Psolidoprocne poensis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., 13, 1903, (34).

Riparia riparia, habits. **Torrey**, B. Auk, Cambridge, Mass., (N. Ser.), 20, 1903, (436-437).

Stelgidopteryx salvi n. sp. Guatemala. **Ridgway**, R. Washington, D.C. Proc. Biol. Soc., 16, 1903, (107).

Tachycineta thalassina: *brachyptera* n. subsp. California. **Brewster**, W. Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., 41, 1902, (1-241).

Campephagidae.

Campephaga compta n. sp. Sumatra. **Richmond**, C. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., 26, 1903, (485-524).

Edoliisoma nn. subsp. Papua. **Rothschild**, Hon. W. & **Hartert**, E. Nov. Zool., Tring, 10, 1903, (206-209).

Graucalus nn. spp. Sumatra. **Richmond**, C. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc. 26, 1903, (485-524).

———— *hypoleucus*, *G. melanops*, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (141-142).

———— *parvirostris* in Tasmania, note. **Little**, F. M. Lc. 3, 1903, (24-26).

———— *temmincki*: *tonkeanus* n. subsp. Celebes. **Meijer**, A. B. Leiden, Notes Mus. Jentink, 23, 1903, (185-189).

Lalage leucomelaena, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (143).

Dicruridae.

Dicrurus afer in Fernando Po. **Alexander**, B. Ibis, London, 1903, (359).

———— *meeki* n. sp. Papua. **Rothschild**, Hon. W. and **Hartert**, E. Nov. Zool., Tring, 10, 1903, (110).

Ampelidae.

Ampelis cedrorum, habits. Amer. Ornith., Worcester, Mass., 3, 1903, (122-131).

———— *garrulus*, near Ramsgate. **Grant**, W. R. O. London, Bull. Brit. Ornith. Cl., 14, 1903, (31).

———— nesting in a British aviary. **Phillippe**, R. Avicult. Mag., Brighton, (Ser. 2), 4, 1903, (357-366).

———— **Rickett**, C. B. Ibis, London, 1903, (216).

———— in Co. Antrim. **Wright**, W. C. Zoologist, London, (Ser. 4), 7, 1903, (456).

Bombycilla garrula. **Gengler**, J. Gefied. Welt, Magdeburg, 32, 1903, (62-63).

Phainopepla. **Gilman**, M. F. Condor, Santa Clara, Cal., 5, 1903, (42-43).

Artamidae.

Artamus, notes on the Papuan species. **Rothschild**, W. and **Hartert**, E. Nov. Zool. Tring, 10, 1903, (112).

——— *leucogaster*, *A. melanops*, *A. minor*, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (148-149).

Laniidae.

Bradypterus, Afrika. **Naumann**, O. Ornith. Monatsber., Berlin, 11, 1903, (87-91).

Collyriocinclia rectirostris, in Tasmania, note. **Littler**, F. M. Emu, Melbourne, 3, 1903, (23-24).

Cracticus cinereus, in Tasmania, note. **Littler**, F. M. l.c. (85-86).

Dryocopus poensis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., 13, 1903, (37).

Gymnorhina dorsalis Campbell and *G. leucanota*, *G. longirostris* n. sp. and *G. tibicen* Latham. **Milligan**, A. Wm. Emu, Melbourne, 3, 1903, (96-102).

——— *hyperleuca*, in Tasmania, notes. **Littler**, F. M. l.c. (82-85).

——— *tibicen*. **Degen**, E. London, Trans. Zool. Soc., 16, 1903, (347-418, pls. XXXVI-XXXVIII).

Lanius, Phylogenie. **Schleibel**, C. (Vorl. Mitt.). Ornith. Monatsber. Berlin, 11, 1903, (105-112).

——— *excubitor*, great grey shrike in Kincardineshire. **Milne**, J. Ann. Scot. Nat. Hist., Edinburgh, 1903, (185-244).

——— in West Suffolk. **Tuck**, J. G. Zoologist, London, (Ser. 4), 7, 1903, (151-152).

——— *Indovicianus*, habits. **Hess**, I. E. Amer. Ornith., Worcester, Mass., 3, 1903, (147-150, with fig in text).

——— *mearnsi* n. subsp. Islands of Lower California. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., 16, 1903, (108).

——— *senator*. **Voigt**, A. Ornith. Monatschr., Gera, 28, 1903, (57-59).

Malacconotus. Afrika. **Neumann**, O. Ornith. Monatsber., Berlin, 11, 1903, (87-91).

Pachycephala falcata, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (146).

——— *gutturalis*. **Seth-Smith**, D. Avicult. Mag., Brighton, (Ser. 2), 2, 1903, (61-63, cum tab.).

——— *johni* n. sp. Central Moluccas. **Hartert**, E. Nov. Zool., Tring, 10, 1903, (12).

——— *moroka* n. sp. Papua. **Rothschild**, Hon. W. and **Hartert**, E. l.c. (106-107).

Pinarolestes megarhyncha nn. subsp. Papua. **Rothschild**, Hon. W. and **Hartert**, E. l.c. (100-101).

Pitohui nn. spp. Papua. **Rothschild**, Hon. W. and **Hartert**, E. l.c. (95-96).

Vireonidae.

Pachysylvia Bonaparte = *Hylophilus* Temminck not *Hylophila* Hübner. **Oberholser**, H. C. Washington, D.C., Proc. Biol. Soc., 16, 1903, (101-102).

——— *ochraceiceps* : *pallidipectus* n. subsp. Costa Rica. **Ridgway**, R. l.c. (108).

Vireo, habits. **Bohlman**, H. T. Condor, Santa Clara, Cal., 5, 1903, (61-64, with pl.).

——— instinct. **Dugmore**, A. R. Country life in America, New York, N.Y., 3, 1903, (240, with text fig.).

——— nn. subsp. Guatemala and Arizona. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., 16, 1903, (107-108).

——— *bellii*. Colorado. **Smith**, H. G. Auk, Cambridge, Mass., (N. Ser.), 20, 1903, (438).

——— *medius* n. subsp. Texas. **Oberholser**, H. C. Washington, D.C., Proc. Biol. Soc. 16, 1903, (17-18).

——— *flavifrons*. **Jacobs**, J. W. Oberlin, Ohio, Wilson Bull. (Ornith.), (N. Ser.), 10, 1903, (17-20).

——— *mailliardorum* n. sp. Santa Cruz. **Grinnell**, J. Condor, Santa Clara, Cal., 5, 1903, (157).

——— *philadelphicus*, habits. **Brewster**, W. Auk, Cambridge, Mass., (N. Ser.), 20, 1903, (369-376, with pl.).

——— *solitarius*, voice. **Brewster**, W. l.c. (437-438).

Vireolanius melitophrys: *goldmani* n. subsp. **Nelson**, E. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (151-160).

———— *pulchellus*: *viridiceps* n. subsp. Panama. **Ridgway**, R. l.c. (108).

Vireosylva nn. subsp. Mexico and Costa Rica. **Ridgway**, R. l.c. (107).

———— *josephae*: *chiriquensis* n. subsp. Chiriqui. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., **4**, 1903, (9-10).

Sittidae.

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Hellmayr, C. E. *Paridae*, *Sittidae* und *Certhiidae*. [Das Tierreich, hrsg. v. F. E. Schulze, Lfg 18.] Berlin (R. Friedländer & S.), 1903, (XXXI + 168). 26 cm. 12,60 M.

Keyser, L. S. The nuthatch family Sittinae. Amer. Ornith., Worcester, Mass., **3**, 1903, (46-59, with figs. in text).

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Sitta caesia. **Noel**, P. Naturaliste, Paris, (sér. 2), **25**, 1903, (11).

———— *europaea*: *persica* n. subsp. S.W. Persia. **Witherby**, H. F. Ibis, London, **1903**, (531-532).

Hyposittidae.

Hypositta, relationships, (*Hyposittidae* n. fam.). **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (125).

Paridae.

GENERAL.

Anxinger, F. Unsere Meisen. In einer übersichtlichen Darstellung. (Gefied. Welt, Magdeburg, **32**, 1903, (265-266, 274-275, 281-282, 289-290, 297-298, 305-306, 313-314, 321-322, 329-330).

Hellmayr, [C. E.]. Erläuterungen zur 18. Lieferung des „Tierreich“. [Betr. *Paridae*.] J. Ornith., Leipzig, **51**, 1903, (394-404).

Hellmayr, [C. E.] *Paridae*, *Sittidae* und *Certhiidae*. [Das Tierreich, hrsg. v. F. E. Schulze, Lfg 18.] Berlin (R. Friedländer & S.), 1903, (XXXI + 168). 26 cm. 12,60 M.

Henriot, E. Les mésanges ou Paridés. Globe illustré, illustr. europ., Bruxelles, **1902**, (262-263).

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Acredula, die russischen Arten. (Russ.) **Blanchi**, V. L. Priroda i ochota, Moskva, **1902**, III, (49-51).

———— *caudata*. (Subspecies). von **Hurg**, G[ustav.]. Ornithol. Beob., Bern, **2**, 1903, (201-202).

———— nesting habits. **Steele Elliott**, J. Zoologist, London. (Ser. 4), **7**, 1903, (350).

———— *rosea*: *taurica* n. subsp. Crimea. **Menabier**, M. London, Bull. Brit. Ornith. Cl., **13**, 1903, (49).

Aegithaliscus talifuensis n. sp. S.W. China. **Rippon**, G. l.c. **14**, 1903, (18).

Anthoscopus minutus. **Sharpe**, R. B. l.c. **13**, 1903, (59-60).

Baeolophus inornatus nn. subsp. California. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (109).

Certhiparus, note on the genus. **Hutton**, F. W. Ibis, London, **1903**, (318-319).

Lophophanes vs. *Baeolophus*. **Ridgway**, R. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (308).

Parus carolinensis. **Dawson**, W. I. Oberlin, Ohio, Wilson Bull. (Ornith.) (N. Ser.), **10**, 1903, (38).

———— *impiger* n. subsp. Florida. **Bangs**, O. Cambridge, Mass., Proc. New. Engl. Zool. Cl., **4**, 1903, (1-2).

———— *corsus* n. sp. **Klein-schmidt**, O. Ornith. Monatsber., Berlin, **11**, 1903, (6-7).

———— *cristatus*, crested tit in Lower Strathspey. **Kinnear**, N. B. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (48-49).

———— *inornatus ridgwayi* n. nom. = *Parus inornatus griseus* Ridgway not *P. griseus* Müller. **Richmond**, C. W.

Washington, D.C., Proc. Biol. Soc., **15**, 1902, (155).

——— *major*. **Buxbaum**, I. Ornith. Monatschr., Gera, **23**, 1903, (203-205).

——— Noch einmal die „Eigentümlich geöffneten Walnüsse“. **Dahms**, P. Natur u. Haus, Dresden, **11**, 1903, (140-141).

——— et *P. coeruleus*, Nützlichkeit. **Jablonowski**, J. Term. Közl., Budapest, **35**, 1903, (517-520).

——— *mollicianoti* n. sp. **Crimae**, **Menstrier**, M. London, Bull. Brit. Ornith. Cl., **13**, 1903, (49).

——— *sardus*, form. nov. **Kleinschmidt**, O. Ornith. Monatsber., Berlin, **11**, 1903, (186).

Psaltiriparus, synopsis of the genus. **Oberholser**, H. C. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (198-201).

——— *minimus*, voice. **Grinnell**, J. Condor, Santa Clara, Cal., **5**, 1903, (85-87).

——— *saturatus* n. subsp. British Columbia. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (109).

Xerophila castaneiventris n. sp. W. Australia. **Milligan**, A. Wm. Emu, Melbourne, **3**, 1903, (70-71).

——— *castaneiventris* **Milligan**, nests and eggs. **Campbell**, A. J. Emu, **3**, 1903, (120).

Oriolidae.

Oriolus broderipi: *oscillans* n. subsp. Eastern Archipelago. **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (32-33).

——— *pervivax* n. sp. Equatorial Africa. **Grant**, W. R. O. London, Bull. Brit. Ornith. Cl., **14**, 1903, (18).

——— *mundus* n. sp. Sumatra. **Richmond**, C. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (517).

Paradisidae.

Epimachus nigricans. **Schleiff**, V. Natur u. Haus, Dresden, **11**, 1903 (309-310).

Janthothorax mirabilis (Rehw.). **Rothschild**, Hon. W. London, Bull. Brit. Ornith. Cl., **13**, 1903, (31-32).

Manucodia ater: *altera* n. subsp. Papua. **Rothschild**, Hon. W. and **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (84-85).

Paradisaea mirabilis Rehw. **Finsch**, O. Ornith. Monatsber., Berlin, **11**, 1903, (167).

Corvidae.

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Le choucas. **Naturaliste**, Paris, (sér. 2), **25**, 1903, (120).

de Contresas, N. Le bruant zi et le bruant fou. Chasse et pêche, Bruxelles, **1902**, (808).

Raspail, Xavier. Protection des semences contre les corbeaux. Paris, Bul. soc. nat. acclim., **50**, 1903, (169-170).

Stone, W. Notes on winter crow life in the Delaware valley. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (267-271).

Sylvain. La pie commune. Eleveur, Paris, **19**, 1903, (221-223, av. fig.).

Tournier, G. La pie fait-elle plusieurs nids? **Naturaliste**, Paris, (sér. 2), **25**, 1903, (116).

Van Kempen, Ch. Invasion de casse-noix dans le nord de la France. **Ornis**, Paris, **11**, 1900-1901, [1902] (446-447).

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Aphelocoma guerrensis n. sp. **Nelson**, E. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (151-160).

——— *texana* in Texas. **Lacey**, H. Condor, Santa Clara, Cal., **5**, 1903, (151-153).

——— *unicolor*: *coelestis* n. subsp. Guatemala. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (108).

Cissa katsumatae n. sp. Hainan. **Rothschild**, Hon. W. London, Bull. Brit. Ornith. Cl., **14**, 1903, (9).

Corvus, color. **Amer. Ornith.**, Worcester, Mass., **3**, 1903, (8-10, with fig. in text).

Corvus, a filaria in. **Elliott**, J. H. Wood's Holl, Mass., Mar. Biol. Lab. Bull., 4, 1903, (64-65).

————— nn. spp. Sardinien. **Kleinschmidt**, O. Ornith. Monatsber., Berlin, 11, 1903, (92).

————— *americanus*. **Eaton**, E. H. Auk, Cambridge, Mass., (N. Ser.), 20, 1903, (57-59, with pl.).

————— *brachyrhynchos* C. L. Brehm = *C. americanus* Audubon. **Richmond**, C. W. Washington, D.C., Proc. Biol. Soc., 16, 1903, (125).

————— *compiler* n. nom. *C. tenuirostris* Moore, not *C. S. Brehm*. **Richmond**, C. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., 26, 1903, (485-524).

————— *corax*, Beobachtungen über eine besondere Geistesthätigkeit und die Wahl dess Nistplatzes. **Botesat**, E. Zool. Jahrb., Jena, Abt. f. Syst., 18, 1903, (727-730).

————— **Hayessen**, F. Ornith. Monatschr., Gera, 23, 1903, (376-378).

————— nesting in Co. Antrim. **Wright**, W. E. Zoologist, London, (Ser. 4), 7, 1903, (191-192).

————— **Schuster**, L. Ornith. Monatschr., Gera, 23, 1903, (319).

————— *corniz*, faunistisch. **Méhely**, L. Állatt. Közlem., Budapest, 2, 1903, (95).

————— Verbreitung und Alter. **Thienemann**, J. Ornith. Monatsber., Berlin, 11, 1903, (157).

————— *C. corone*, Nützlichkeit. **Loos**, C. Ornith. Monatschr., Gera, 23, 1903, (76-77).

————— x *C. corone*. **Thienemann**, J. Ornith. Monatsber., Berlin, 11, 1903, (71).

————— **Thienemann**, J. Lc. (188-189).

————— nesting in Snffolk. **Butler**, E. A. Zoologist, London, (Ser. 4), 7, 1903, (350).

————— **Börig**, G. Ornith. Monatschr., Gera, 23, 1903, (470-477).

————— *corone* in the Irish Channel. **Patten**, C. J. Zoologist, London, (Ser. 4), 7, 1903, (192).

Corvus corone in the Irish Channel. **Patten**, C. J. Irish Nat., Dublin, 12, 1903, (139).

————— *coronoides* Vigors & Horsfield, note. **Hall**, R. Emu, Melbourne, 3, 1903, (42).

————— *cryptoleucus*. **Bailey**, V. Condor, Santa Clara, Cal., 5, 1903, (87-89).

————— *frugilegus*: *tachusii* n. subsp. **Hartert**, E. Die Vögel der palaarktischen Fauna, (14).

————— im Winterquartier. **Sprenger**, C. Natur u. Haus, Dresden, 11, 1903, (123-126).

————— *insularis* n. sp. **Heinroth**, O. J. Ornith., Leipzig, 1903, (69-71).

Cyanocitta, habits. **Chapman**, F. M. The Century Magazine, New York, N.Y., 64, 1902, (N. Ser. 42), (405-412, with fig. in text).

Cyanocorax cyanopogon. **Butler**, A. G. Avicult. Mag., Brighton, (Ser. 2), 1, 1903, (227-230).

Cyanolyca mirabilis n. sp. **Nelson**, E. W. Washington, D.C., Proc. Biol. Soc., 16, 1903, (151-160).

Cyanopica cyanus: *swinhoei* n. subsp. **Hartert**, E. Die Vögel der palaarktischen Fauna, (24).

Garrulus glandarius, migration. **Aplin**, O. V. Zoologist, London, (Ser. 4), 7, 1903, (28).

————— nn. subspp. **Hartert**, E. Die Vögel der palaarktischen Fauna, (30-33).

————— **Landols**, H. Münster, Jahresber. Prov. Ver. Wiss., 31, (1902-03), 1903, (185-186).

————— **Mienhards**, O. Gefied. Welt, Magdeburg, 32, 1903, (266-268).

————— migration. **Morris**, R. Zoologist, London, (Ser. 4), 7, 1903, (27-28).

————— *ichnusae* n. form. Sardinien. **Kleinschmidt**, O. Ornith. Monatsber., Berlin, 11, 1903, (92).

Nucifraga caryocatactes L. im solothurnischen Jura. **Von Burg**, Gustav. Aarau (Sauerländer), 1902, (II + 21).

————— *rothschildi* n. subsp. **Hartert**, E. Die Vögel der palaarktischen Fauna, (27).

Trypanocorax frugilegus roosting habits. **Crump**, W. B. Halifax Nat., 8, 1903, (5-8, 37-38).

————— migration. **Rothschild**, W. and **Hartert**, E. Nov. Zool., Tring, 10, 1903, (122-123).

Drepanidae.

Loxioides bailleni. **Bryan**, W. A. Condor, Santa Clara, Cal., 5, 1903, (80).

Oreomyza n. nom. = *Oreomyza* Stejn. **Stejneger**, L. Washington, D.C., Proc. Biol. Soc., 16, 1903, (11-12).

Sturnidae.

Amydrus creaghi n. sp. **Grant**, W. R. O. and **Forbes**, H. O. Aves in: The natural History of Sokotra and Abd-el-Kuri, (58).

————— *gracilirostris* n. sp. Afrika. **Neumann**, O. Ornith. Monatsber., Berlin, 11, 1903, (180-185).

Goodfellowia n. gen., *G. miranda* n. sp. Philippine Islands. **Hartert**, E. London, Bull. Brit. Ornith. Cl., 14, 1903, (11-12).

Lamprocolius chubbi n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., 13, 1903, (48); *Ibis*, London, 1903, (357-358).

Onychorhynchus mexicanus: *fraterculus* n. subsp. Columbia. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., 3, 1902, (81-90).

Sturnus vulgaris, Zug, mit besonderer Berücksichtigung der Gätke'schen Ansicht über Zug der Vögel nach Alter und Geschlecht. **Helm**, F. J. Ornith., Leipzig, 51, 1903, (259-270).

————— *grandin* n. subsp. **Hartert**, E. Die Vögel der palaarktischen Fauna, (43).

Meliphagidae.

Acanthocheraera inauris in Tasmania, notes. **Littler**, F. M. Emu, Melbourne, 3, 1903, (88-89).

Fafa n. gen., *E. maculata* n. sp. Papua. **Rothschild**, Hon. W. and **Hartert**, E. Nov. Zool., Tring, 10, 1903, (448).

Entomophila leucomelas, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (147).

Glycyphila fasciata, *G. ocularis*, eggs. **Le Souëf**, D. l.c. (146-147).

Melithreptus leucogenys n. sp. W. Australia. **Milligan**, A. W. l.c. (160-161).

Myzomela batjanensis n. sp. Eastern Archipelago. **Hartert**, E. Nov. Zool., Tring, 10, 1903, (56).

————— *equus*: *nymani* n. subsp. Papua. **Rothschild**, Hon. W. and **Hartert**, L. l.c. (223).

————— *kuehni* n. sp. Malay Peninsula. **Rothschild**, Hon. W. London, Bull. Brit. Ornith. Cl., 13, 1903, (42-43).

Philemon buceroides, *P. citreogularis*: *sordidus*, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (148).

Ptilotis auricomis and allies. **Cambell**, A. J. Avicult. Mag., Brighton, (Ser. 2), 1, 1903, (347-353).

————— *finchi* n. sp. and nn. subsp. Papua. **Rothschild**, Hon. W. and **Hartert**, E. Nov. Zool., Tring, 10, 1903, (442-445, 446, 448).

————— *flavicularis* in Tasmania, notes. **Littler**, F. M. Emu, Melbourne, 3, 1903, (81-89).

————— *heartlandi*, *P. notata*, eggs. **Le Souëf**, D. l.c. 2, 1903, (147).

————— *leucotis* Lath., plumage phases. **Hall**, R. l.c. 3, 1903, (43-45).

Zosteropidae.

Hypocryptadius n. gen., *H. cinnamomeus* n. sp. Philippines. **Hartert**, E. London, Bull. Brit. Ornith. Cl., 14, 1903, (13).

Zosterops nn. spp. Philippines. **Hartert**, E. l.c. (13-14).

————— *flavissima* n. sp. Eastern Archipelago. **Hartert**, E. Nov. Zool., Tring, 10, 1903, (29-30).

————— *gulliveri*, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (146).

————— *schoana* n. sp. Afrika. **Neumann**, O. Ornith. Monatsber., Berlin, 11, 1903, (180-185).

————— *smithi* n. sp. Afrika. **Neumann**, O. l.c. (138-139).

Nectariniidae.

Chalcomitra boothi n. sp. Nyasa. **Reichenow**, [A.]. Ornith. Monatsber., Berlin, 10, 1902, (8).

Cinnyris infrenata n. sp. Eastern Archipelago. **Hartert**, E. Nov. Zool., Tring, 10, 1903, (29).

Cyanomitra nn. spp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., 13, 1903, (38).

———— *ursulae* n. sp. Fernando Po. **Alexander**, B. Ibis, London, 1903, (342, pl. IX, fig. 2).

Nectarinia barakae from Ruwenzori identical with *Cinnyris purpureiventris* Reich., to be called *N. purpureiventris* Reich. **Sharpe**, R. B. London, Bull. Brit. Ornith. Cl., 13, 1903, (50).

———— *salvadorii* n. sp. Nyasa-land. **Shelley**, G. E. l.c. (61).

Dicaeidae.

Dicaeum geelrinkianum: *dixerum* n. subsp. Papua. **Rothschild**, Hon. W. and **Hartert**, L. Nov. Zool., Tring, 10, 1903, (215).

———— *kühni* n. sp. Eastern Archipelago. **Hartert**, E. l.c. (28-29).

Certhiidae.

GENERAL.

Hellmayr, C. E. *Paridae*, *Sittidae* and *Certhiidae*. [Das Tierreich, hrsg. v. F. E. Schulze. Lfg. 18.] Berlin (T. Friedländer & S.), 1903, (XXXI + 168). 26 cm. 12,60 M.

SPECIAL.

Certhia familiaris, field notes. Cyprus. **Bate**, D. M. A. Ibis, London, 1903, (577).

Mniotiltidae.

Certhidia, anatomy. **Snodgrass**, R. E. Auk, Cambridge, Mass., (N. Ser.), 20, 1903, (402-417, with 3 pls.).

Dendroeca, spp. from Abaco, Bahama. **Bonhote**, J. L. London, Bull. Brit. Ornith. Cl., 13, 1903, (50-51).

Dendroeca auduboni, habits. **Sharp**, C. S. Condor, Santa Clara, Cal., 5, 1903, (79).

———— *discolor*, habits. Amer. Ornith., Worcester, Mass., 3, 1903, (62-70, with fig. in text).

———— *kirtlandi* in Michigan, breeding area. **Adams**, C. Science, New York, N.Y., (N. Ser.), 18, 1903, (217).

———— Ohio. **Jones**, L. Oberlin, Ohio, Bull. Agassiz Ass. Wilson Ornith. Ch., (N. Ser.), 9, 1902, (104-105).

———— *tigrina* in Massachusetts. **McKeechie**, F. B. Auk, Cambridge, Mass., (N. Ser.), 20, 1903, (218).

Geothlypis, spp. from Bahamas. **Bonhote**, J. L. London, Bull. Brit. Ornith. Cl., 13, 1903, (51).

———— *agilis*. Adoubt. **Stone**, W. Atl. Slope Nat., Narbeth, Pa., 1, 1903, (54).

Helminthophila leucobronchialis in Ohio. **Jones**, L. Oberlin Ohio, Wilson Bull. (Ornith.), (N. Ser.), 10, 1903, (68-69).

Seiurus motacilla in Minnesota. **Mearns**, L. di Z. Auk, Cambridge, Mass., (N. Ser.), 20, 1903, (307-308).

Sylvia caerulea Wilson, note. **Allen**, J. A. l.c. (216-218).

Wilsonia mitrata, breeding ground. **Maxon**, W. R. Washington, D.C., Proc. Biol. Soc., 15, 1902, (156).

Tanagridae.

Calospiza cyanocephala. **Berlepsch**, H. Graf von. Ornith. Monatsber., Berlin, 11, 1903, (18-20).

Chlorophanes frontalis: *psittacina* n. subsp. Colombia. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., 3, 1902, (81-90).

Chlorospingus novicius n. sp. Panama. **Bangs**, O. l.c. (15-70).

Cyanicterus tenuis in Amazonia. **Sclater**, P. L. London, Bull. Brit. Ornith. Cl., 14, 1903, (31).

Piranga ludoviciana, migration. **Emerson**, W. Otto. Condor, Santa Clara, Cal., 5, 1903, (64-66).

Piranga ludoviciana, in Louisiana. **Head**, A. Amer. Ornith., Worcester, Mass., **3**, 1903, (10-14, with col. pls.).

Spindalis spp. from Bahamas. **Bonhote**, J. L. London, Bull. Brit. Ornith. Cl., **13**, 1903, (50).

Tanagra palmarum: *melanoptera*. **Clark**, A. H. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (398-402).

Ploceidae.

Coccoxygia bocagei n. sp. West Africa. **Shelley**, G. E. London, Bull. Brit. Ornith. Cl., **13**, 1903, (56).

———— *clarkei* n. sp. Africa. **Shelley**, G. E. l.c. (75).

Colinospasser delamerei n. sp. Africa. **Shelley**, G. E. l.c. (73-76).

Cryptospiza elizae n. sp. Fernando Po. **Alexander**, B. l.c. (38).

Estrilda nn. spp. Afrika. **Reichenow**, [A.]. Ornith. Monatsber., Berlin, **10**, 1902, (173, 184-185); **11**, 1903, (23-24).

———— nn. spp. Afrika. **Shelley**, G. E. London, Bull. Brit. Ornith. Cl., **13**, 1903, (74-75).

———— *angolensis*. **Phillipps**, R. Avicult. Mag., Brighton, (Ser. 2), **1**, 1903, (120-124, cum tab.).

———— *el'zae* n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (54); Ibis, London, **1903**, (354).

Hypargus harterti n. sp. [= *nitidula* Hartl. 1880, nec Hartl. 1865]. **Shelley**, G. E. London, Bull. Brit. Ornith. Cl., **14**, 1903, (30).

Melanopteryx mazirelli n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (54); Ibis, London, **1903**, (355).

Neochmia phaeton, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (150).

Nesocharis n. gen., *N. shelleyi* n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (48); Ibis, London, **1903**, (352).

Poephila acuticauda, *P. mirabilis*, *P. personata*, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (149-150).

———— *gouldiae*, Leuchtorgane. **Chun**, C. Zool. Anz., Leipzig, **27**, 1903, (61-64).

Ploceus finchi n. sp. Afrika. **Reichenow**, [A.]. Ornith. Monatsber., Berlin, **11**, 1903, (23-24).

———— *megarhynchus*, the large billed weaver bird from N.W. India. **Harper**, E. W. London, Bull. Brit. Ornith. Cl., **14**, 1903, (23-24).

———— *orphnocephalus* n. sp. Afrika. **Erlanger**, C. Ornith. Monatsber., Berlin, **11**, 1903, (23).

Pyromelana taha: *intercedens* n. subsp. Afrika. **Erlanger**, C. l.c. (23).

Pytelia nn. spp. Afrika. **Shelley**, G. E. London, Bull. Brit. Ornith. Cl., **13**, 1903, (76).

Spermestes nigriceps: *minor* n. subsp. Afrika. **Erlanger**, C. Ornith. Monatsber., Berlin, **11**, 1903, (22).

Sycobrotus poensis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (38).

Urobrachya phoenicea: *quanzae* n. subsp. West Afrika. **Hartert**, E. l.c. (56).

Icteridae.

GENERAL.

Polyhemus, E. Grackles. Amer. Ornith., Worcester, Mass., **3**, 1903, (3-5, with fig. in text).

SPECIAL.

Agelaius gubernator. **Daggett**, F. S. Condor, Santa Clara, Cal., **5**, 1903, (52).

Euphagus n. nom. — *Scolecophagus* Swainson not Geoffroy. **Richmond**, C. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (128).

Icterus bullocki, nestbuilding. **Sharp**, C. S. Condor, Santa Clara, Cal., **5**, 1903, (38-42).

———— *spurius*, nest. **Shufeldt**, R. W. Oberlin, Ohio, Wilson Bull., (Ornith.) (N. Ser.) **10**, 1903, (45-49, with pl.).

Ostinops decumanus, nesting near Para. **Goeldi**, E. Ibis, London, **1903**, (630-632).

Scolecophagus carolinus. Amer. Ornith., Worcester, Mass., **3**, 1903, ([1]-3, with fig. in text).

Fringillidae.

Hathaway, H[arry] L. Second record of the Henslow's sparrow [*Ammodramus henslowi*] for R.I. Rhode Island, Ornith., Bristol, R.I., 2, 1901, (11).

MacGillivray, W. L. Crossbills in Barra. Ann. Scot. Nat. Hist., Edinburgh, 1903, (244).

Shelley, G. E. *Fringillidae* from Africa, notes. London, Bull. Brit. Ornith. Cl., 14, 1903, (29-30).

Van Kempen, Ch. Note sur une invasion de becs-croisés dans le Nord. Ornith. Paris, 11, 1900-1901, [1902], (460).

SPECIAL.

Acanthis nn. spp. et subsp. **Hartert**, E. Die Vögel der palaarktischen Fauna, (68-69, 77).

Alario leucolaema n. sp. Namaqua Land **Sharpe**, R. B. London, Bull. Brit. Ornith. Cl., 13, 1903, (80).

Ammodramus savannarum: *perpallidus* nest. Amer. Ornith., Worcester, Mass., 3, 1903, (14-19, 22, with fig. in text).

Astragalinus psaltria (Say): *hesperophilus* n. subsp. North America. **Oberholser**, H. C. Washington, D.C., Proc. Biol. Soc., 16, 1903, (113-116).

Calamospiza melanocorys, spotted eggs. **Dille**, F. M. Condor, Santa Clara, Cal., 5, 1903, (79).

Cardinalis cardinalis, parental relations. **Harvey**, G. F. Auk, Cambridge, Mass., (N. Ser.), 20, 1903, (54-57, with pl.).

_____ *magistrostris* n. subsp. **Bangs**, O. Cambridge, Mass. Proc. New Engl. Zool. Cl., 4, 1903, (5-7).

Carduelis carduelis. **Finn**, F. London, Proc. Zool. Soc., 1903, 2, (3-4).

_____ *elegans* in Britain. **Aplin**, O. V. Zoologist, London, (Ser. 4), 7, 1903, (152, 190).

_____ in South Africa. **Butler**, E. A. l.e. (228-229).

_____ in South Africa. **Distant**, W. L. l.e. (432).

_____ status in Britain. **D'Urban**, W. S. M. l.e. (104-105).

Carduelis elegans from Ireland. **Finn**, F. London, Bull. Brit. Ornith. Cl., 13, 1903, (79).

_____ status in Great Britain. **Forrest**, H. E. Zoologist, London, (Ser. 4), 7, 1903, (70-72).

_____ status in Great Britain. **Harvie-Brown**, J. A. l.e. (23-26).

_____ in Australia and Tasmania. **Le Souëf**, D. l.e. (191).

Catamenia alpica n. sp. Colombia. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., 3, 1902, (81-90).

Chloris sinica: *ussuriensis* n. subsp. **Hartert**, E. Die Vögel der palaarktischen Fauna, (64).

Chrysomitris spinus breeding in Co. Wicklow. **Fleming**, W. W. Zoologist, London, (Ser. 4), 7, 1903, (456-457).

Coccothraustes vespertinus, breeding. **Fleming**, J. H. Auk, Cambridge, Mass., (N. Ser.), 20, 1903, (213-215).

_____ *montanus*. Mexico. **Breninger**, G. F. l.e. (68-69).

_____ *vulgaris*, hawfinch in North Dumfriesshire. **Bartholomew**, J. Ann. Scot. Nat. Hist., Edinburgh, 1903, (184-185).

_____ Vorkommen im mittleren Lennetal. **Hennemann**, W. Münster, Jahresber. Prov.Ver. Wiss., 31, (1902-03), 1903, (186-187).

_____ near Ipswich. **Tuck**, J. G. Zoologist, London, (Ser. 4), 7, 1903, (104-105).

Cocornis, anatomy. **Snodgrass**, R. E. Auk, Cambridge, Mass., (N. Ser.), 20, 1903, (402-417, with 3 pls.).

Crithagra imberbis Cab. **Reichenow**, [A.] Ornith. Monatsber., Berlin, 11, 1903, (167-168).

Emberiza cia, first occurrence in England. **Sharpe**, R. B. London, Bull. Brit. Ornith. Cl., 13, 1903, (38).

_____ *cirlus* in Flintshire. **Cummings**, S. G. Zoologist, London, (Ser. 4), 7, 1903, (350).

_____ *citrinella* und *E. leucocephala* und über Variation. **Klein-schmidt**, [O.] J. Ornith., Leipzig, 51, 1903, (145-148).

Emberiza citrinella Variationen in Farbe. **Natorp**, O. Ornith. Monatschr., Gera, **28**, 1903, (16).

— *pusilla* in Durham. **Nelson**, T. H. Ibis, London, **1903**, (139).

Eophona melanura : *migratoria* n. subsp. **Hartert**, E. Die Vögel der paläarktischen Fauna, (59).

Erythrospiza githaginea : *amantum* n. subsp. **Hartert**, E. l.c. (89).

Fringilla coelebs, Winteraufenthalt. **Hoffmann**, E. Ornith. Monatsber., Berlin, **11**, 1903, (70-71).

— *montifringilla*, die Invasion der Bergfinken in der Schweiz im Jahr 1901. **Fischer-Sigwart**, H. Ornithol. Beob., Bern, **1**, 1902, (221-222, 228-229).

— *serinus*. **Buxbaum**, L. Zool. Garten, Frankfurt a. M., **44**, 1903, (13-14).

Geospiza, anatomy. **Snodgrass**, R. E. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (402-417, with 3 pls.).

Habropygia coerulescens. **Hermann**, R. Natur u. Haus, Dresden, **12**, 1903, (5-6).

Junco hyemalis, song. **Mercer**, B. Amer. Ornith., Worcester, Mass., **3**, 1903, (143).

— *oreganus* : *shufeldti*, parental relations. **Bohlman**, H. I. Condor, Santa Clara, Cal., **5**, 1903, (94-95, with pl.).

Leucosticte tephrocotis : *littoralis*. **Silloway**, P. M. Oberlin, Ohio, Wilson Bull. (Ornith.), (N. Ser.), **10**, 1903, ([1]-4).

Linota rufescens, habits. **Butterfield**, E. P. Zoologist, London, (Ser. 4), **7**, 1903, (72).

— — — — — habits. **Cummings**, S. G. l.c. (107).

— — — — — nesting habits. **Gyngell**, W. l.c. (107).

— — — — — nesting in Somerset. **Meyrick**, H. l.c. (459).

— — — — — in Cardigan-shire. **Salter**, J. H. l.c. (106-107).

— — — — — nesting in Middlesex. **Read**, R. l.c. (26).

Loxia bifasciata from Kent. **Ticehurst**, N. F. London, Bull. Brit. Ornith. Cl., **13**, 1903, (51).

— *guillemardi* n. sp. Cyprus. **Madarász**, J. von. Ornith. Monatsber., Berlin, **11**, 1903, (5-6).

Melospiza coronatorum n. sp. Los Coronados islands. **Grinnell**, J. and **Daggett**, F. S. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (27-37).

— *lincolni* in Western New York. **Short**, S. H. Atl. Slope Nat., Narbeth, Pa., **1**, 1903, (52).

Passer domesticus, combat avec une sauterelle verte. **Borgogno**, C. Nantes, Bul. soc. sci. nat., (sér. 2, 3), **13**, 1903, (111).

— — — — — sexual relations. **Clark**, J. H. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (306-307).

— — — — — **Saxenberger**. Ornith. Monatschr., Gera, **28**, 1903, (250-252).

— — — — — **Wildhagen**, [H.]. Aus d. Heimat, Stuttgart, **18**, 1903, (67-68).

— *montanus* in the Isle of Man. **Graves**, F. S. Zoologist, London, (Ser. 4), **7**, 1903, (313-314).

Passerculus sandwichensis. . . **Howe**, R. H., jun. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (215-216).

Passerella. **Bolce**, H. Sci. Amer. Sup., New York, N.Y., **56**, 1903, (23347-23348).

— *iliaca* : *megarhyncha*, removal of eggs. **Belding**, L. Condor, Santa Clara, Cal., **5**, 1903, (79).

Petronia dentata. **Butler**, A. G. Avicult. Mag., Brighton, (Ser. 2), **1**, 1903, (294-298).

Pinaroloxias inornata (Gould), notes. **Richmond**, C. W. Washington, D.C., Proc. Biol. Soc., **15**, 1902, (247-248).

Pipilo aberti, habits. **Gilman**, M. F. Condor, Santa Clara, Cal., **5**, 1903, (12-13).

— *erythrophthalmus*. New York. **Hendrickson**, W. F. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (216).

Pyrrhospiza camerunensis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (38).

Serinus canarius. **Stern**, E. S. Der Kanarienvogel. Berlin (Ullstein u. Co.), [1903], (189, mit Taf.).

———— *madarassi* n. sp. Afrika. **Reichenow**, [A.] Ornith. Monatsber., Berlin, 10, 1902, (8); 11, 1903, (40-41).

———— *shelleys* n. sp. Afrika. **Neumann**, O. l.c. 11, 1903, (180-185).

———— *simplex* n. sp. Afrika. **Reichenow**, [A.] l.c. 10, 1902, (173, 184-185); 11, 1903, (23-24).

Spinus pinus, habits. **Bowles**, C. W. Condor, Santa Clara, Cal., 5, 1903, (15).

———— habits. **Bowles**, J. H. l.c. (20).

———— *psaltria*, late nesting. **Miller**, J. M. l.c. (19).

Spiza americana. Black-throated bunting. Amer. Ornith., Worcester, Mass., 3, 1903, (136-137, with fig. in text).

———— **Booker**, A. I. l.c. (140-141, with fig. in text).

UNCLASSIFIED BY THE SLIP MAKER.

Hydroictinia atra. Milan. **Dant**, C. Ornith. Beob., Bern, 2, 1903, (225-227).

Stictopthera annulosa, eggs. **Le Souëf**, D. Emu, Melbourne, 2, 1903, (149).

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ACANTHIS [Fringillidae].

———— *carduelis*: *africanus* n. subsp. **Hartert**. 490.

———— *britannicus* n. subsp. **Hartert**. 490.

———— *flavirostris*: *stoliczkae* n. subsp. **Hartert**. 490.

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———— *magnirostris*. **Campbell**. 199.

———— *pallida*. **Milligan**. 798.

———— *robustirostris*. **Milligan**. 795.

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———— *batesi*. **Sharpe**. 1075.

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———— *rosea*: *taurica* n. subsp. **Menzies**. 774.

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———— *celebensis*. **Heinroth**. 510.

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———— *cinerea*. **Ehmcke**. 326.

———— *flavescens*. **Ehmcke**. 326.

———— *subalpina*. **Ehmcke**. 326.

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———— *stictigula*. **Shelley**. 1085.

ALCYONE [Coraciidae].

———— *azurea*: *ochrogaster* n. subsp. **Reichenow**. 946.

ALETHE [Turdidae].

———— *moeri*. **Alexander**. 7, 12.

Alopocheilidon n. gen. [Hirundinidae]. **Ridgway**. 967.

ALSEONAX [Muscicapidae].

———— *poensis*. **Alexander**. 10.

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———— *heterura*. **Madarász**. 743.

AMYDRUS [Sturnidae].

———— *creaghi*. **Grant & Forbes**. 439.

———— *gracilirostris*. **Neumann**. 828.

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———— *cypriotes*. **Bate**. 73.

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———— *lopezi*. **Alexander**. 7, 12.

APHELOCOMA [Corvidae].

———— *guerrerensis*. **Nelson**. 818.

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ARDEA [Herodiones].

———— *herodias*: *cognata* n. subsp. **Bangs**. 56.

———— *fannini* n. subsp. **Chapman**. 213.

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———— *psaltria*: *hesperophilus* n. subsp. **Oberholser**. 824.

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———— *gentilis*: *arrigoni* n. subsp. **Kleinschmidt**. 654.

———— *griseogularis*: *obivensis* n. subsp. **Hartert**. 484.

———— *lopezi*. **Alexander**. 8.

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———— *inornatus*: *murinus* n. subsp. **Ridgway**. 967.

———— *inornatus*: *restrictus* n. subsp. **Ridgway**. 967.

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 — *kandti*. Reichenow. 942.
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 — *alfredi*. Shelley. 1085.
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 — *kiautschensis*. Reichenow. 943.
 — *virginianus* : *elachistus* n. subsp. Brewster. 160.
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 — *flavus* : *alascensis* n. subsp. Ridgway. 967.
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 — *poensis*. Alexander. 7, 12.
 — *roberti*. Alexander. 7, 12.
 — *sharpiei*. Shelley. 1085.
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 — *granti*. Alexander. 7, 12.
CAMPEPHAGA [Campephagidae].
 — *compta*. Richmond. 965.
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 — *hemileucurus* : *mellitus* n. subsp. Bangs. 53.
CARDINALIS [Fringillidae].
 — *cardinalis* : *magnirostris* n. subsp. Bangs. 59.
CATAMENIA [Fringillidae].
 — *alpica*. Bangs. 54.
CATHARUS [Turdidae].
 — *gracilirostris* : *accentor* n. subsp. Bangs. 54.
CATHERPES [Troglodytidae].
 — *mezicanus* : *polioptilus* n. subsp. Oberholser. 856.
CERTHILAUDA [Alaudidae].
 — *somalica*. Witherby. 1247.
CHALCOMITRA [Nectariniidae].
 — *boothi*. Reichenow. 941.
CHALCUREUS [Galliformes].
 — *inopinatus*. Rothschild. 996.
- CHAMAEA** [Chamaeidae].
 — *fasciata* : *rufula* n. subsp. Ridgway. 967.
CHLORIS [Fringillidae].
 — *sinica* : *ussuriensis* n. subsp. Hartert. 490.
CHLORONERPES [Pici].
 — *simplex* : *allophyus* n. subsp. Bangs. 61.
 — *yucatanensis* : *alleni* n. subsp. Bangs. 54.
CHLOROPHONIA [Tanagridae].
 — *frontalis* : *peittacina* n. subsp. Bangs. 54.
CHLOROSPINGUS [Tanagridae].
 — *novicus*. Bangs. 53.
CHORDEILES [Anisodactylae].
 — *virginianus* : *vicinus* n. subsp. Riley. 974.
CINCLODES [Cinclidae].
 — *heterurus*. Madarász. 745.
CINOLUS [Cinclidae].
 — *caucasicus*. Madarász. 746.
 — *hiberti*. Madarász. 746.
 — *olympicus*. Madarász. 742.
 — *siemseni*. Martens. 753.
CINNYRIS [Nectariniidae].
 — *infrenata*. Hartert. 485.
CISSA [Corvidae].
 — *katsumatae*. Rothschild. 1001.
CISTICOLA [Sylviidae].
 — *cisticola* : *mauritanica* n. subsp. Whitaker. 1224.
CISTOTHORUS [Troglodytidae].
 — *polyglottus* : *lucidus* n. subsp. Ridgway. 969.
COCCOPTYGHIA [Ploceidae].
 — *boacagi*. Shelley. 1084.
 — *clarkei*. Shelley. 1086.
COLIUSPASSER [Ploceidae].
 — *delamerei*. Shelley. 1086.
COLUMBA [Columbae].
 — *albertisi* : *exsul* n. subsp. Hartert. 486.
 — *phasma* n. nom. Richmond. 965.
COLUMBIGALLINA [Columbae].
 — *passerina* : *aflavida* n. subsp. Palmer and Riley. 876.
CORVUS [Corvidae].
 — *compilator* n. nom. Richmond. 965.

- CORVUS** [Corvidae].
 — *frugilegus*: *tschusi* n. subsp. Hartert. 490.
 — *insularis*. Heinroth. 510.
 — *sardonius*. Kleinschmidt. 653.
 — *sardus*. Kleinschmidt. 653.
Corydus n. gen. [Alaudidae]. Dresser. 298.
CRATEROPUS [Timeliidae].
 — *smithi*: *lacuum* n. subsp. Neumann. 824.
 — *smithi*: *omoensis* n. subsp. Neumann. 824.
CRINIGER [Pycnonotidae].
 — *lucasi*. Hartert. 484.
CRYPTOLOPHA [Muscicapidae].
 — *everetti*: *waterstradti* n. subsp. Hartert. 484.
 — *herberti*. Alexander. 712.
 — *mindanensis*. Hartert. 483.
 — *raiguensis*. Hartert. 480.
CRYPTOSPIZA [Ploceidae].
 — *elizae*. Alexander. 7.
CYANODERMA [Timeliidae].
 — *fulviventris*. Richmond. 965.
CYANOLYCA [Corvidae].
 — *mirabilis*. Nelson. 818.
CYANOMITRA [Nectariniidae].
 — *poensis*. Alexander. 7.
 — *ursulae*. Alexander. 7, 12.
CYANOPICA [Corvidae].
 — *cyanus*: *swinhoei* n. subsp. Hartert. 490.
CYPSELUS [Cypseli].
 — *poensis*. Alexander. 7, 12.
DACTYLORTYX [Galliformes].
 — *thoracicus*: *sharpei* n. subsp. Nelson. 818.
DENDREXETASTES [Dendrocolaptidae].
 — *berlepschi*. Madarász. 745.
DENDROCOPUS [Pici].
 — *tillosum*: *extimus* n. subsp. Bangs. 53.
DENDROICA [Sylviidae].
 — *acutiro*: *brewsteri* n. ncm. Grinnell. 452.
DENDROORNIS [Dendrocolaptidae].
 — *nana*: *confinis* n. subsp. Bangs. 61.
DIAPHOROPHYIA [Muscicapidae].
 — *chlorophrys*. Alexander. 7, 12.
DICAEOUM [Dicæidae].
 — *geelrinkianum*: *diversum* n. subsp. Rothschild and Hartert. 1002.
 — *kühni*. Hartert. 485.
DICRURUS [Dicruridae].
 — *meeki*. Rothschild and Hartert. 1002.
Diplochelidon n. gen. [Hirundinidae]. Ridgway. 967.
DRYOSCOPIUS [Laniidae].
 — *poensis*. Alexander. 7.
Eafa n. gen. [Meliphagidae]. Rothschild and Hartert. 1002.
 — *maculata*. Rothschild and Hartert. 1002.
EDOLIISOMA [Campephagidae].
 — *melas*: *meeki* n. subsp. Rothschild and Hartert. 1002.
 — *melas*: *tommasonis* n. subsp. Rothschild and Hartert. 1002.
 — *meyeri*: *sharpei* n. subsp. Rothschild and Hartert. 1002.
ELAINEA [Tyrannidae].
 — *gularis*. Madarász. 745.
EOPHONA [Fringillidae].
 — *melanura*: *migratoria* n. subsp. Hartert. 490.
ERYTHROSPIZA [Fringillidae].
 — *githaginea*: *amantum* n. subsp. Hartert. 490.
ESTRILGA [Ploceidae].
 — *elizae*. Alexander. 9, 12.
 — *kandti*. Reichenow. 942.
 — *peasei*. Shelley. 1086.
 — *poliopareia*. Reichenow. 942.
 — *sanctae-helenae*. Shelley. 1086.
Euphagus n. nom. [Icteridae]. Richmond. 964.
EUPRINODES [Sylviidae].
 — *sclateri*. Alexander. 7.
FRANCOLINUS [Galliformes].
 — *mulemae*. Grant. 435.
GARRULUS [Corvidae].
 — *glandarius*: *kleinschmidtii* n. subsp. Hartert. 490.
 — *rufitergum* n. subsp. Hartert. 490.
 — *whitakeri* n. subsp. Hartert. 490.
 — *ichnusae*. Kleinschmidt. 653.

- GENNAEUS** [Galliformes].
 ——— *affinis*. Oates. 848.
 ——— *jonesi*. Oates. 849.
 ——— *nisebetti*. Oates. 849.
- GEOTHYLIPS** [Columbae].
 ——— *chapalensis*. Nelson. 818.
- GEOTRYGON** [Columbae].
 ——— *albifacies*: *rubida* n. subsp.
 Nelson. 818.
 ——— *sabae*. Riley. 973.
- GERYGONE** [Muscicapidae].
 ——— *neglecta*: *dohertyi* n. subsp.
 Rothschild and Hartert. 1002.
- Goodfellowia** n. gen. [Sturnidae]. Har-
 tert. 483.
 ——— *miranda*. Hartert. 483.
- GRALLARICULA** [Formicariidae].
 ——— *vegeta*. Bangs. 53.
- GRAUCALUS** [Campephagidae].
 ——— *babienensis*. Richmond. 965.
 ——— *simalurensis*. Richmond. 965.
 ——— *temmincki*: *tonkeanus* n.
 subsp. Meijer. 768.
- GYMNOBHINA** [Laniidae].
 ——— *longirostris*. Milligan. 796.
- HALCYON** [Coraciidae].
 ——— *lopezi*. Alexander. 7, 12.
 ——— *matthiae*. Heinroth. 510.
 ——— *nusae*. Heinroth. 510.
- HAPLOFELIA** [Columbae].
 ——— *poensis*. Alexander. 7.
- HELEODYTES** [Troglodytidae].
 ——— *nelsoni*. Ridgway. 967.
- HEMIURA** [Timeliidae].
 ——— *leucozastra*: *musica* n. subsp.
 Nelson. 818.
- HENICORHINA** [Troglodytidae].
 ——— *collina*. Bangs. 53.
 ——— *hilaris*: *bangsi* n. subsp.
 Ridgway. 969.
 ——— *inornata*. Hellmayr. 512.
 ——— *leucophrys*: *berlepschi* n.
 subsp. Ridgway. 969.
 ——— *castanea* n.
 subsp. Ridgway. 969.
 ——— *festiva* n. subsp.
 Nelson. 818.
- HETEROCENUS** [Herodiones].
 ——— *bolivianus*. Lönnberg. 715.
- HETEROTROGON** [Heterodactylae].
 ——— *francisci*. Alexander. 7,
 12.
- HYLIA** [Sylviidae].
 ——— *poensis*. Alexander. 7.
- HYPARGUS** [Ploceidae].
 ——— *harterti*. Shelley. 1087.
- Hypocryptadius** n. gen. [Zosteropidae].
 Hartert. 483.
 ——— *cinnamomeus*. Hartert. 483.
- HYPOTAENIDIA** [Fulicariidae].
 ——— *urakensis*. Rothschild. 999.
- INDICATOR** [Pici].
 ——— *poensis*. Alexander. 7, 12.
- Lamprochelidon** n. gen. [Hirundinidae].
 Ridgway. 967.
- LAMPROCOLIUS** [Sturnidae].
 ——— *chubbi*. Alexander. 8, 12.
- LANIUS** [Laniidae].
 ——— *ludovicianus*: *mearnsi* n.
 subsp. Ridgway. 967.
- LIOPHTILUS** [Muscicapidae].
 ——— *claudei*. Alexander. 7, 12.
- LOXIA** [Fringillidae].
 ——— *guillemardi*. Madarász. 742.
- LULLULA** [Alaudidae].
 ——— *flavescens*. Ehmcke. 326.
- LYBIUS** [Pici].
 ——— *thiogaster*. Neumann. 825.
 ——— *undatus*: *gardullensis* n.
 subsp. Neumann. 824.
 ——— *salvadorii* n.
 subsp. Neumann. 824.
- MACROPTERYX** [Coraciidae].
 ——— *perlonga*. Richmond. 965.
- MACROSPHENUS** [Timeliidae].
 ——— *poensis*. Alexander. 7, 12.
- MANUCODIA** [Paradiseidae].
 ——— *ater*: *altera* n. subsp.
 Rothschild & Hartert. 1002.
- MASIUS** [Pipridae].
 ——— *chrysopterus*: *bellus* n.
 subsp. Hartert und
 Hellmayr. 491.
- MEGASCOPS** [Strigidae].
 ——— *xantusi*. Brewster. 160.
- MELANOPTERYX** [Ploceidae].
 ——— *maxwelli*. Alexander. 9, 12.
- MELITHREPTUS** [Meliphagidae].
 ——— *leucogenys*. Milligan. 792.
- MELOSPIZA** [Fringillidae].
 ——— *coronatorum*. Grinnell &
 Daggett. 457.

- MEGALURUS** [Turdidae].
 ——— *striatus*. Milligan. 793.
- MEROPOGON** [Coraciæ].
 ——— *forsteri*: *centralis* n. subsp.
 Meijer. 768.
- MEROPS** [Coraciæ].
 ——— *marionis*. Alexander. 7, 12.
- MERULA** [Turdidae].
 ——— *algira*. Madarász. 746.
 ——— *aterrima*. Madarász. 744.
 ——— *baraka*. Sharpe. 1080.
- MICROCERCULUS** [Troglodytidae].
 ——— *acenetus*. Bangs. 33.
 ——— *corrasus*. Bangs. 54.
- MICROECA** [Muscicapidae].
 ——— *griseiceps*: *occidentalis* n.
 subsp. Rothschild &
 Hartert. 1002.
- MICROSTICTUS** [Pici].
 ——— *intermedius*. Meijer. 768.
- MIONECTES** [Tyrannidae].
 ——— *olivaceus*: *galbinus* n. subsp.
 Bangs. 54.
- MONARCHA** [Muscicapidae].
 ——— *menckei*. Heinroth. 510.
- Monias** n. gen. [Fulicariæ]. Oustalet
 et Grandidier. 874.
 ——— *benschii*. Oustalet et Grandi-
 dier. 874.
- MUSCICAPULA** [Muscicapidae].
 ——— *hyperythra*: *pallidipectus* n.
 subsp. Hartert. 486.
- MYIOPAGIS** [Tyrannidae].
 ——— *placens*: *accola* n. subsp.
 Bangs. 53.
 ——— *pallens* n. subsp.
 Bangs. 54.
- MYZOMELA** [Meliphagidae].
 ——— *batjanensis*. Hartert. 486.
 ——— *eques*: *nymani* n. subsp.
 Rothschild & Hartert.
 1002.
 ——— *kuehni*. Rothschild. 997.
- NEOTARINIA** [Nectariniidae].
 ——— *salvadorii*. Shelley. 1085.
- Nesocharis** n. gen. [Ploceidae]. Alex-
 ander. 8.
 ——— *shelleyi*. Alexander. 8, 12.
- NUCIFRAGA** [Corvidæ].
 ——— *caryocatacta*: *rothschildi* n.
 subsp. Hartert. 490.
- NYCTIDROMUS** [Caprimulgi].
 ——— *albicollis*: *gilvus* n. subsp.
 Bangs. 54.
- ONYCHORHYNCHUS** [Sturnidae].
 ——— *mexicanus*: *fraterculus* n.
 subsp. Bangs. 54.
- OREOCINCLA** [Turdidae].
 ——— *horefeldi*: *affinis* n. subsp.
 Richmond. 959.
- Oreomystis** n. nom. [Fulicariæ].
 Stejneger. 1126.
- ORIOLES** [Oriolidae].
 ——— *broderipi*: *oscillans* n. subsp.
 Hartert. 485.
 ——— *pereitali*. Grant. 434.
 ——— *mundus*. Richmond. 965.
- Orochelidon** n. gen. [Hirundinidae].
 Ridgway. 967.
- ORTALIS** [Galliformes].
 ——— *struthopus*. Bangs. 52.
- PACHYCEPHALA** [Laniidae].
 ——— *johni*. Hartert. 484.
 ——— *moroka*. Rothschild &
 Hartert. 1002.
- PACHYSYLVA** [Vireonidae].
 ——— *ochraceiceps*: *pallidipectus* n.
 subsp. Ridgway. 967.
- PARUS** [Paridae].
 ——— *carolinensis*: *impiger* n.
 subsp. Bangs. 57.
 ——— *corvus*. Kleinschmidt. 652.
 ——— *inornatus*: *ridgwayi* n. nom.
 Richmond. 958.
 ——— *moltchanovi*. Menzbier.
 774.
 ——— *sardus*. Kleinschmidt. 656.
- PELARGOPSIS** [Coraciæ].
 ——— *simalurensis*. Richmond.
 965.
 ——— *sodalis*. Richmond. 965.
- PENELOPIDES** [Coraciæ].
 ——— *talisi*. Finsch. 355.
- PETROCHELIDON** [Hirundinidae].
 ——— *lunifrons*: *tachina* n. subsp.
 Oberholser. 851.
- PHAETHORNIS** [Cypseli].
 ——— *guy*: *coruscus* n. subsp.
 Bangs. 53.
- PHLEXIS** [Sylviidae].
 ——— *lopezi*. Alexander. 8.
- PHOENICOPHAUS** [Coccygæ].
 ——— *calorhynchus*: *rusiloris* n.
 subsp. Hartert. 485.
- PHYLLOSTROPHUS** [Pycnonotidae].
 ——— *poensis*. Alexander. 7, 12.
- PICUMNUS** [Pici].
 ——— *dimotus*. Bangs. 61.

- PINAROLESTES** [Laniidae].
 ——— *megarhyncha*: *despectus* n.
 subsp. Rothschild &
 Hartert. 1002.
 ——— *madarasszi* n.
 subsp. Rothschild &
 Hartert. 1002.
- PISORHINA** [Striges].
 ——— *balia*. Reichenow. 941.
 ——— *manadensis*: *kalidupae* n.
 subsp. Hartert. 485.
 ——— *umbra*. Richmond. 985.
- PTOHUI** [Laniidae].
 ——— *dohertyi*. Rothschild &
 Hartert. 1002.
 ——— *meyeri*. Rothschild &
 Hartert. 1002.
- PLOCEUS** [Ploceidae].
 ——— *finchi*. Reichenow. 942.
 ——— *orphnocephalus*. Erlanger.
 334.
- POLLIALIS** n. gen. [Sylviidae]. Alexander.
 7, 12.
 ——— *helenorae*. Alexander. 7,
 12.
- POLIOPTILA** [Turdidae].
 ——— *bairdi*. Ridgway. 967.
 ——— *nelsoni*. Ridgway. 967.
 ——— *superciliaris*: *magna*, n.
 subsp. Ridgway. 967.
- POLYBOROIDES** [Accipitres].
 ——— *pectoralis*. Sharpe. 1075.
- POMATORHINUS** [Timeliidae].
 ——— *tickelli*: *hainanus* n. subsp.
 Rothschild. 1001.
- PREMNOPLEX** [Dendrocolaptidae].
 ——— *coloratus*. Bangs. 54.
- PROPARUS** [Timeliidae].
 ——— *sordidior*. Rippon. 979.
- PSALIDOPROCTE** [Hirundinidae].
 ——— *poensis*. Alexander. 7.
- PSALTRIPARUS** [Paridae].
 ——— *minimus*: *saturatus* n. subsp.
 Ridgway. 967.
- PSEUDOGYPIS** [Accipitres].
 ——— *africanus*: *fülleborni* n.
 subsp. Erlanger. 334.
 ——— *africanus*: *schillingsi* n.
 subsp. Erlanger. 334.
 ——— *africanus*: *sechi* n. subsp.
 Erlanger. 334.
- PSITTIPARUS** [Timeliidae].
 ——— *gularis*: *hainanus* n. subsp.
 Rothschild. 1001.
- PTILINOPUS** [Columbæ].
 ——— *melanocephala*: *aurescentior*
 n. subsp. Hartert. 485.
- PTILOPUS** [Columbæ].
 ——— *centralis*. Meijer. 768.
- PTILOLOTIS** [Meliphagidae].
 ——— *aruensis*: *sharppei* n. subsp.
 Rothschild & Hartert.
 1002.
 ——— *chrysotis*: *madarasszi* n.
 subsp. Rothschild &
 Hartert. 1002.
 ——— *saturator* n.
 subsp. Rothschild &
 Hartert. 1002.
 ——— *finchi*. Rothschild &
 Hartert. 1002.
- PYROMELA** [Ploceidae].
 ——— *taha*: *intercedens* n. subsp.
 Erlanger. 334.
- PYRRHOSPIZA** [Fringillidae].
 ——— *camerunensis*. Alexander. 1.
- PYRRHULAUDA** [Alaudidae].
 ——— *butleri*. Shelley. 1086.
 ——— *lacteidorsalis*. Shelley.
 1086.
- PYTELIA** [Ploceidae].
 ——— *jeasei*. Shelley. 1086.
 ——— *kirki*. Shelley. 1086.
- RHINOMYIAS** [Muscicapidae].
 ——— *umbratilis*: *richmondi* n.
 subsp. Stone. 1131.
- REIPIDURA** [Muscicapidae].
 ——— *matthiae*. Heinroth. 510.
 ——— *nigrocinnamomea*. Hartert.
 483.
- RICOORDIA** [Cypseli].
 ——— *aeneoviridis*. Palmer and
 Riley. 876.
- RUTICILLA** [Turdidae].
 ——— *nigra*. Giglioli. 415.
- RUWENSORNIIS** n. gen. [Coccyges].
 Neumann. 823.
- SALPINOTES** [Troglodytidae].
 ——— *maculatus*. Ridgway. 969.
 ——— *obsoletus*: *exsul* n. subsp.
 Ridgway. 967.
 ——— *notius* n. subsp.
 Ridgway. 967.
- SAPAYOA** n. gen. [Pipridae]. Hartert.
 481, 487.
 ——— *aenigma*. Hartert. 481,
 487.
- SAYORNIS** [Tyrannidae].
 ——— *amnicola*. Bangs. 53.

- SCLERURUS** [Dendrocolaptidae].
 ————— *mexicanus*: *pullos* n. subsp.
 Bangs. 53.
- SCOTELUS** [Coraciidae].
 ————— *brunneiceps*. Sharpe. 1081.
- SERICORNIS** [Sylviidae].
 ————— *pusilla*. Rothschild &
 Hartert. 1002.
- SERILOPHUS** [Pici].
 ————— *lunatus*: *polionotus* n. subsp.
 Rothschild. 1001.
- SERINUS** [Fringillidae].
 ————— *madaraszii*. Reichenow. 941.
 ————— *shelleyi*. Neumann. 828.
 ————— *simplex*. Reichenow. 942.
- SIALIA** [Turdidae].
 ————— *mexicana*: *australis* n. subsp.
 Nelson. 818.
- SIPHIA** [Muscicapidae].
 ————— *hoërtlii*. Meijer. 768.
- SIPTORNIS** [Dendrocolaptidae].
 ————— *certhia*. Madarász. 745.
- SITTA** [Sittidae].
 ————— *europaea*: *persica* n. subsp.
 Witherby. 1248.
- SITTASOMUS** [Dendrocolaptidae].
 ————— *levis*. Bangs. 53.
- SMITHORNIS** [Muscicapidae].
 ————— *sharpai*. Alexander. 7, 12.
 ————— *zenkeri*. Reichenow. 941.
- SPERMESTES** [Ploceidae].
 ————— *nigriceps*: *minor* n. subsp.
 Erlanger. 334.
- SPILOPTILA** [Sylviidae].
 ————— *malopenis*. Sharpe. 1070.
- SPILORNIS** [Accipitres].
 ————— *abbotti*. Richmond. 965.
- STACHYRIDOPSIS** [Timeliidae].
 ————— *ruficeps*: *goodsoni* n. subsp.
 Rothschild. 1001.
- STACHYRIS** [Timeliidae].
 ————— *chrysops*. Richmond. 959.
 ————— *guttata*: *surinchoi* n. subsp.
 Rothschild. 1001.
- STELGIDILLAS** [Pycnonotidae].
 ————— *poensis*. Alexander. 7, 12.
- STELGIDOPTERYX** [Hirundinidae].
 ————— *salvini*. Ridgway. 967.
- STENOPSIS** [Caprimulgi].
 ————— *cayennensis*: *inularis* n.
 subsp. Richmond. 960.
- STERNA** [Gaviæ].
 ————— *zimmermanni*. Reichenow.
 943.
- STIPHORNIS** [Sylviidae].
 ————— *xanthogaster*. Sharpe. 1081.
- STURNUS** [Sturnidae].
 ————— *vulgaris*: *granti* n. subsp.
 Hartert. 490.
- SUTHORA** [Timeliidae].
 ————— *craddocki*. Bingham. 111.
 ————— *styani*. Rippon. 978.
 ————— *thompsoni*. Bingham. 112.
- SYCOBROTUS** [Ploceidae].
 ————— *poensis*. Alexander. 1075.
- SYNALLAXIS** [Dendrocolaptidae].
 ————— *occipitalis*. Madarász. 745.
- SYRNIVM** [Striges].
 ————— *occidentale*: *lucidum* n. subsp.
 Nelson. 818.
- TACHYCINETA** [Hirundinidae].
 ————— *thalassina*: *brachyptera* n.
 subsp. Brewster. 160.
- TANYGNATHUS** [Psittaci].
 ————— *megalorhynchus*: *viridipen-*
nis n. subsp. Hartert. 485.
- TCHITREA** [Muscicapidae].
 ————— *processa*. Richmond. 965.
- TELMATODITES** [Troglodytidae].
 ————— *palustris*: *iliacus* n. subsp.
 Ridgway. 967.
 ————— *palustris*: *thryophilus* n.
 subsp. Oberholser. 855.
- THALASSOGERON** [Tubinares].
 ————— *carteri*. Rothschild. 1000.
- THRYOPHILUS** [Troglodytidae].
 ————— *galbraithi*: *conditus* n. subsp.
 Bangs. 58.
 ————— *modestus*: *clutus* n. subsp.
 Bangs. 53.
 ————— ————— *pullus* n. subsp.
 Ridgway. 969.
 ————— *pleurostictus*: *ravus* n. subsp.
 Ridgway. 969.
 ————— *sinaloa*: *russeus* n. subsp.
 Nelson. 818.
- TODOPSIS** [Muscicapidae].
 ————— *cianocephalus*: *dohertyi* n.
 subsp. Rothschild &
 Hartert. 1002.
- TOTANUS** [Limicolæ].
 ————— *melanoleucus*: *frazari* n.
 subsp. Brewster. 160.
- TRICHOGLOSSUS** [Psittaci].
 ————— *johnstoniae*. Hartert. 483.
- TRICHOLAEMA** [Pici].
 ————— *alexandri*. Shelley. 1085.

TROCHALOPTERON [Timeliidae].

———— *canorum : oustoni* n. subsp.
Rothschild. 1001.

TROGLODYTES [Trogodytidae].

———— *browni*. Bangs. 53.
———— *brunneicollis : nitidus* n.
subsp. Nelson. 818.

TURDUS [Turdidae].

———— *poensis*. Alexander. 7, 12.

TURTUR [Columbae].

———— *capicola : tropica* n. subsp.
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Menschenaffen (Anthropomorphae). Studien über Entwicklung und Schädelbau. Hrsg. v. Emil Selenka. Nach seinem Tode auf Grund des Nachlasses fortgeführt v. A. A. W. Hubrecht, H. Strahl und F. Keibel. Lfg 6: O. Walkhoff, menschl. Kiefer. Wiesbaden (C. W. Kreidel), 1903, (I-III, 373-415). 30 cm. 11 M.

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Palästina. **Nehring**, A. Berlin, Sitz-
Ber. Ges. natf. Freunde, 1902, (123-128,
147-148).

Lynx fasciatus pallescens n. subsp.
California. **Merriam**, C. H. Washing-
ton, D.C., U. S. Dept. Agric. Div. Biol.
Surv., N. Amer. Fauna, No. 16, 1899,
(179, with text, fig. and pl.). [Reprinted
in 1901]. 23 cm.

_____ *rufus escuinapae* n. subsp.
Mexico. **Allen**, J. A. New York, N.Y.,
Bull. Amer. Mus. Nat. Hist., 19, 1903,
(613-615).

Machaerodus crenatidens † from
Pliocene cave, Derbyshire. **Dawkins**,
W. B. London, Q. J. Geol. Soc., 59,
1903, (111).

_____ *horribilis* † n. sp. China.
Schlosser, M. München, Abh. Ak.
Wiss., math.-phys. Cl., 22, Abt. 1, 1903,
(37).

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Zoologist, London, (Ser. 4), 7, 1903,
(441-443).

_____ *tazipater* † n. sp. China.
Schlosser, M. München, Abh. Ak.
Wiss., math.-phys. Cl., 22, Abt. 1, 1903,
(28).

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Edinburgh. **Campbell**, J. Ann. Scot.
Nat. Hist., Edinburgh, 1903, (243).

_____ **Klotz**, R. Der
Dachs. Seine Naturgeschichte und
Jagd und die dazu geeigneten Hunde
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- *foina: syriaca* n. subsp., *M. palaesyrriaca* n. sp. **Nehring**, A. Berlin, SitzBer. Ges. natf. Freunde, **1902**, (145-147).
- *martes* in the Highlands. **Harvie-Brown**, J. A. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (117).
- *putorius* from Ross-shire. **Bischoff**, C. H. l.c. (48).
- Paradoxurus lignicolor* n. sp. Malay. **Miller**, G. S., jun. Washington, D.C., Smithsonian Inst. Misc. Col., Q. **45**, 1903, (1-73, with pl.).
- *minor* n. sp. Malay Peninsula. **Bonhote**, T. L. Fascic. Malay. Zool., **1**, (9-10).
- Phoca*. **Clark**, G. A. and **Jordan**, D. S. Int. Q., Burlington, Vt., **7**, 1903, (222-230).
- *groenlandica*, note. **Campbell**, J. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (243).
- in Great Britain. **Jourdain**, F. C. R. Zoologist, London, (Ser. 4), **7**, 1903, (312).
- **Saemundsson**, B. Bergen, Norsk. Fisket., **22**, 1903, (412-422).
- East coast of Scotland. **Taylor**, W. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (184).
- Procyon psora: pacifica* n. subsp. California. **Merriam**, C. H. Washington, D.C., U. S. Dept. Agric. Div. Biol. Surv., N. Amer. Fauna, No. **16**, 1899 (179, with text fig. and pl.). [Reprinted in 1901].
- Progenetta certa*† n. sp. France. **Major**, C. I. F. Geol. Mag., London, [4], **10**, 1903, (534-535).
- Pterodon africanus*† n. sp. Egypt. **Andrews**, C. W. l.c. (342-343, with fig.).
- Putorius (Arctogale) pygmaeus* n. sp. Siberia. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (101-184).
- Putorius microtis* n. sp. N. America. **Allen**, J. A. l.c. (521-527).
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- Stenorhynchus*. **Thomas**, O. l.c. (153-154).
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Alactaga williamsi: *laticeps* n. subsp. Northwest - Kleinasien. **Nehring**, A. Berlin, SitzBer. Ges. natf. Freunde, **1903**, (257-360).

Anisomys n. gen., *A. imitator* n. sp. British New Guinea. **Thomas**, O. London, Proc. Zool. Soc., **1903**, 2, (199-201, pl. XXIII).

———— das Murmelthier der nördlichen Mongolei. (Russ.) **Podbél'ski**, A. I. Kazan', Prot. Obsč. jest., **1901-1902**, [1902], Jhg. 33, No. 195, (1-12).

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Atherura zygomata n. sp. Malay. **Miller**, G. S., jun. Washington, D.C., Smithsonian Inst. Misc. Col., Q. **45**, 1903, (1-73, with pl.).

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———— in Yorkshire. **Speight**, H. l.c. (108-109).

———— Lebensweise. **Diederich**, E. Wild u. Hund, Berlin, **9**, 1903, (730-731).

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Amer. Mus. Nat. Hist., **19**, 1903, (521-527).

Coendou centralis n. sp. Matto Grosso. **Thomas**, O. London, Proc. Zool. Soc., **1903**, 2, (240-241).

—— *laenatus* n. sp. Chiriqui. **Thomas**, O. Ann. Mag. Nat. Hist., London, (Ser. 7), **11**, 1903, (381).

Cricetulus atticus n. sp. Griechenland. **Nehring**, A. Berlin, SitzBer. Ges. natf. Freunde, **1902**, (1-7).

Cricetus vulgaris: *babylonius* n. subsp. Asien. **Nehring**, A. l.c. **1903**, (360-361).

Ctenomys nn. spp. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (185-196).

—— *azarae* n. sp. S. America. **Thomas**, O. Ann. Mag. Nat. Hist., London, (Ser. 7), **11**, 1903, (228-229).

Cylindrodon n. gen., *C. fontes* † n. sp. Oligocene, Montana. **Douglass**, E. Philadelphia, Pa., Trans. Amer. Phil. Soc., (N. Ser.), **20**, 1902, (237-279).

Dasyprocta lucifer n. sp., *D. lucifer*: *cayennae* n. subsp. Mexico. **Thomas**, O. l.c. (491-492).

Dendromys nn. spp. Africa. **Thomas**, O. l.c. **12**, 1903, (340-342).

Dipodillus henleyi n. sp. Egypt. **De Winton**, W. E. Nov. Zool., Tring, **10**, 1903, (284, pl. VIII, fig. 1).

Dipodomys nn. subsp. **Elliot**, D. G. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3**, 1903, (239-261).

Dipoides majori † n. sp. China. **Schlosser**, M. München, Abh. Ak. Wiss., math.-phys. Cl., **22**, Abt. 1, 1902, (40).

Eligmodontia morgani n. sp. Patagonia. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **14**, 1901, (405-412).

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Eumys minor † n. sp. Oligocene, Montana. **Douglass**, E. Philadelphia, Pa., Trans. Amer. Phil. Soc., (N. Ser.), **20**, 1902, (237-279).

Euneomys petersoni n. sp. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (185-196).

Eutamias canicaudus n. sp. United States. **Merriam**, C. H. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (73-78).

—— *durangae* † n. sp. New Mexico. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (587-612).

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—— *scomerenensis* n. sp. Wales. **Hamilton**, G. E. Barrett. Dublin, Proc. R. Irish Acad., **24**, 1903, (316).

Fornarina n. gen. for *Heterocephalus phillipsi*. **Thomas**, O. London, Proc. Zool. Soc., **1903**, 2, (336).

Funambulus nn. spp. Malay. **Miller**, G. S., jun. Washington, D.C., Smithsonian Inst. Misc. Col., Q. **45**, 1903, (1-73 with pl.).

—— *insignis*: *jalorensis* n. subsp. Malay Peninsula. **Bonhote**, T. L. Fascic. Malay. Zool., **1**, (25-26).

Funisciurus mandingo n. sp. Gambia. **Thomas**, O. Ann. Mag. Nat. Hist., London, (Ser. 7), **11**, 1903, (79-80).

—— *raptorum* n. sp. Lower Nigeria. **Thomas**, O. l.c. **11**, 1903, (80-81).

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—— *riggenbachi* n. sp. Western Sahara. **Thomas**, O. Nov. Zool., Tring, **10**, 1903, (301).

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Heterocephalus ansorgei n. sp.
British East Africa. **Thomas**, O.
London, Proc. Zool. Soc., **1903**, 2, (336-337).

Hyomys n. gen., *H. meeki* n. sp.
British New Guinea. **Thomas**, O. l.c.
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H. F. New York, N.Y., Bull. Amer.
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gascar. **Grandidier**, G. Bul. Muséum,
Paris, **1903**, (13-15, av. fig.).

Hypudaeus arvalis als Zerstörer
eines Bienenstaates. **Israël**, W. Gera,
Jahresber. Ges. Natw., **43-45**, (1900-02),
1903, (84-85).

Ischyromys vetteri† n. sp. Montana.
Matthew, W. D. New York, N.Y.,
Bull. Amer. Mus. Nat. Hist., **19**, 1903,
(197-226).

Jaculus gordonii n. sp. Soudan.
Thomas, O. London, Proc. Zool. Soc.,
1903, 1, (299).

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n. subsp. Mexico. **Thomas**, O. Ann.
Mag. Nat. Hist., London, (Ser. 7), **11**,
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Leggada tenella n. sp. Nile. **Thomas**,
O. London, Proc. Zool. Soc., **1903**, 1,
(298).

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subsp. Siberia. **Allen**, J. A. New
York, N.Y., Bull. Amer. Mus. Nat. Hist.,
19, 1903, (101-184).

Lenothrix n. gen., *L. canus* n. sp.
Sumatra. **Miller**, G. S., jun. Washing-
ton, D.C., Smithsonian Inst., Nation.
Mus. Proc., **26**, 1903, (437-484).

Lepus, élevage. **Lamarche**, C. de.
Paris, Bul. soc. nat. acclim., **50**, 1903,
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(*Microtalogus*) nn. subsp.
New Mexico. **Allen**, J. A. New York,
N.Y., Bull. Amer. Mus. Nat. Hist., **19**,
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Cape Colony. **Thomas**, O. l.c. **12**,
1903, (344).

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62, 1903, (176-193, mit 2 Taf.).

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für Anfänger und erfahrene Züchter.
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New Mexico. **Allen**, J. A. New York,
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1903, (587-612).

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Allen, J. A. l.c. (101-184).

harterti n. sp. Western
Sahara. **Thomas**, O. Nov. Zool., Tring,
10, 1903, (301-302).

klamathensis n. sp. Cali-
fornia. **Merriam**, C. H. Washington,
D.C., U. S. Dept. Agric. Div. Biol. Surv.,
N. Amer. Fauna, No. **16**, 1899, (179, with
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subsp. **Elliot**, D. G. Chicago, Ill.,
Pub. Field Columb. Mus., Zool. Ser., **3**,
1903, (239-261).

monticularis n. sp. Cape
Colony. **Thomas**, O. Ann. Mag. Nat.
Hist., London, (Ser. 7), **11**, 1903, (78-79).

parnassius n. sp. Greece.
Miller, G. S., jun. Washington, D.C.,
Proc. Biol. Soc., **16**, 1903, (145-146).

timidus. **Stephan**, W.
l.c. (324-325, 340-341, 356-357, 372-374).

Meriones blackleyi n. sp. Smyrna.
Thomas, O. Ann. Mag. Nat. Hist., Lon-
don, (Ser. 7), **12**, 1903, (189).

Microtus (*Microtus*) *hartingi* n. sp.
Thessaly. **Hamilton**, G. E. H. **Barrett**.
l.c. **11**, 1903, (307-308).

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cene of the Thames Valley. **Hinton** and
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(*Pitymys*) *thomasi* n. sp.
Montenegro. **Hamilton**, G. E. H.
Barrett. Ann. Mag. Nat. Hist., London,
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Morenella n. nom. (= *Morenia* Ame-
ghino). **Palmer**, T. S. Science, New
York, N.Y., (N. Ser.), **17**, 1903, (873).

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type *Mus pilorides*. **Trouessart**, E. L.

Ann. Mag. Nat. Hist., London, (Ser. 7), 11, 1903, (335-388).

Mus, développement de la capsule surrénale. **Roud**, A. Lausanne, Bull. Soc. Sc. Nat., 38, 1902, (187-258, av. 4 pls.).

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nn. spp. Sumatra. **Miller**, G. S., jun. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., 26, 1903, (458-464).

nervous system. **Hatal**, S. Chicago, Ill., Dec. Pub. Univ. Chic., (Ser. 1), 10, 1903, ([177]-190, with pl.).

nn. spp. Malay. **Bonhote**, J. L. Fascic. Malay. Zool., 1, (28-31).

nn. spp. Borneo and Malay Peninsula. **Bonhote**, J. L. Ann. Mag. Nat. Hist., London, (Ser. 7), 11, 1903, (123-125).

atridorsum n. nom. = *Mus atratus* **Miller** not **Philippe**. **Miller**, G. S., jun. Washington, D.C., Proc. Biol. Soc., 16, 1903, (50).

decumanus u. *M. alexandrinus*. Beitrag zur Kenntnis der Pestepidemiologie. **Tiraboschi**, C. Arch. Hyg., München, 46, 1903, (251-263).

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epimelas n. sp. Griechenland. **Nehring**, A. Berlin, SitzBer. Ges. natf. Freunde, 1902, (1-7).

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mystacinus : *smyrnensis* n. subsp. Smyrna. **Thomas**, O. l.c. (188).

rattus. **Ahrend**. Natur u. Haus, Dresden, 11, 1903, (371-373).

syloaticus wintoni in Suffolk. **Butler**, E. A. Zoologist, London, (Ser. 4), 7, 1903, (311).

Barham in Suffolk. **Southwell**, T. l.c. (150-151).

vicereis n. sp. Simla. **Bonhote**, J. L. Ann. Mag. Nat. Hist., London, (Ser. 7), 11, 1903, (473-474).

Muscardinus avellanarius L. Le muscardin des noisetiers. **Daclyn**, A. Chalon-sur-Saône, Bul. soc. sci. nat., 29, (n. sér.), t. IX, 1903, No. 6, (137-138).

Nehring, A. Zool. Anz., Leipzig, 26, 1903, (533-534).

near Aberystwyth. **Salter**, J. H. Zoologist, London, (Ser. 4), 7, 1903, (104).

aus Kleinasien. **Nehring**, A. Berlin, SitzBer. Ges. natf. Freunde, 1903, (187-188).

Mylagaulodon n. gen., *M. angulatus* n. sp. Oregon, Upper John Day Beds. **Sinclair**, W. J. Amer. J. Sci., New Haven, Conn., (Ser. 4), 15, (143-144).

Myodes lemmus. **Mela**, A. J. Luonnon Ystävä, Helsingfors, 1903, 10, (239-242).

Myoprocta acouchy n. nom. for *Dasyprocta acouchy*. **Thomas**, O. Ann. Mag. Nat. Hist., London, (Ser. 7), 12, 1903, (464).

Myoxus dryas, geographische Verbreitung. **Nehring**, A. Zool. Anz., Leipzig, 27, 1903, (42-46).

glis : *orientalis* n. subsp. Kleinasien. **Nehring**, A. Berlin, SitzBer. Ges. natf. Freunde, 1903, (187-188); Zool. Anz., Leipzig, 26, 1903, (533-534).

intermedius der österreichischen Alpenländer. **Nehring**, A. Berlin, SitzBer. Ges. natf. Freunde, 1903, (1-3).

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nitedula ; *icingei* n. subsp. Griechenland. **Nehring**, A. l.c. (1-7).

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Neacomys spinosus : *amaenus* n. subsp. Matto Grosso. **Thomas**, O. London, Proc. Zool. Soc., 1903, 2, (239).

Nectomys squamipes : *mattensis* n. subsp. Matto Grosso. **Thomas**, O. l.c. (238-239).

Nelsonia goldmani n. sp. Mexico. **Merriam**, C. H. Washington, D.C., Proc. Biol. Soc., 16, 1903, (79-82).

Neotoma nn. subsp. **Elliot**, D. G. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., 3, 1903, (239-261).

Neotoma nn. spp. Mexico. **Merriam**, C. H. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (47-48).

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LIST OF NEW GENERA AND SPECIES.

ACERATHERIUM [Perissodactyla].

—— *bavaricum*†. Strömer von Reichenbach. 687.

ACOMYS [Rodentia].

—— *nesiotes*. Bate. 42.

AGRIOCOERUS [Artiodactyla].

—— *maximus*†. Douglass. 179.

—— *minus*†. Douglass. 179.

AKODON [Rodentia].

—— *suffusus*. Thomas. 722.

—— *tucumanensis*. Allen. 8.

—— *vestitus*. Thomas. 722.

ALACTAGA [Rodentia].

—— *williamsi*: *laticeps* n. subsp. Nehring. 491.

ALCICEPHALUS [Artiodactyla].

—— *sinensis*†. Schlosser. 611.

ANCHITHERIUM [Perissodactyla].

—— *zittelii*†. Schlosser. 611.

ANISOMYS n. gen. [Rodentia]. Thomas. 705.

—— *imitator*. Thomas. 705.

ANTHORHINA [Chiroptera].

—— *picata*. Thomas. 724.

APTERNODUS† n. gen. [Insectivora].

—— Matthew. 427A.

—— *mediaevus*†. Matthew. 427A.

ARRETOTHERIUM† n. gen. [Artiodactyla].

—— Douglass. 179.

—— *acridens*†. Douglass. 179.

ARSINOÏTHERIUM [Subungulata].

—— *andreicsii*†. Geol. Mag., London, [4], 10, 1903, (529-531, pls. xxiii-xxiv).

ARTIBEUS [Chiroptera].

—— *hercules*. Rehn. 565.

—— *parvipes*. Rehn. 565.

ARVICANTHIS [Rodentia].

—— *dunni*. Thomas. 703.

ATHERURA [Rodentia].

—— *sygmatica*. Miller. 466.

BASSARISCUS [Carnivora].

—— *albipes*. Elliot. 195.

—— *sumichrasti*: *notinus* n. subsp. Thomas. 715.

BATHYGENYS† n. gen. [Artiodactyla].

—— Douglass. 179.

—— *alpha*†. Douglass. 179.

BOS [Artiodactyla].

—— *gaurus*: *readei* n. subsp. Lydekker. 397.

BUNAEURUS [Carnivora].

—— *infelix*†. Matthew. 427A.

CALICEBUS n. nom. [Primates]. Thomas. 724.

CAIUROMYS [Monotremata].

—— *trinitatis*: *venezuelae* n. subsp. Thomas. 718.

CANIS [Carnivora].

- _____ *albigula*. Philippi. 537.
 _____ *amblyodon*. Philippi. 537.
 _____ *anthus*: *soudanicus* n. subsp.
 Thomas. 703.
 _____ *impatidus*. Allen. 17.
 _____ *kaffensis*. Neumann. 497.
 _____ *maullinicus*. Philippi. 537.
 _____ *sladeni*. Thomas. 706.
 _____ *thous*: *angulensis* n. subsp.
 Thomas. 724.
 _____ *torquatus*. Philippi. 537.
 _____ *trichodactylus*. Philippi.
 537.

CEBUS [Primates].

- _____ *imitator*. Thomas. 715.

CEPHALOPHUS [Artiodactyla].

- _____ *brookei*. Thomas. 714.
 _____ *ignifer*. Thomas. 702.

CERCOPITHECUS [Primates].

- _____ *djamdjamensis*. Neumann.
 497.
 _____ *ellenbecki*. Neumann. 497.
 _____ *h'lgerti*. Neumann. 497.
 _____ *matechisi*. Neumann. 497.

CERVAVUS † n. gen. [Artiodactyla].

- _____ Schlosser. 611.
 _____ *rutimeyeri* †. Schlosser. 611.
 _____ *speciosus* †. Schlosser. 611.

CERVUS [Artiodactyla].

- _____ *merriami*. Nelson. 494.

CHAERONYCTERIS [Chiroptera].

- _____ *godmani*. Thomas. 712.

CHELEMYS n. subgen. [Rodentia].

- _____ Thomas. 722.

CHILONATALUS [Chiroptera].

- _____ *tumidifrons*. Miller. 461.

CHIROPOMYS [Rodentia].

- _____ *niadis*. Miller. 466.

CITELLUS [Rodentia].

- _____ *adocetus*. Merriam. 440.
 _____ *buxtoni*. Allen. 14.
 _____ *chlorus*. Elliot. 195.
 _____ *eremonomus*. Elliot. 195.
 _____ *grammurus*; *rupestris*
 n. subsp. Allen. 17.
 _____ *grammurus*: *utah* n. subsp.
 Merriam. 439.
 _____ *leucurus*: *vinnulus* n. subsp.
 Elliot. 195.
 _____ *nebulicola*. Osgood. 522.
 _____ *plexius*: *ablusus* n. subsp.
 Osgood. 522.
 _____ *stejnegeri*. Allen. 14.
 _____ *stonei*. Allen. 16.

COENDOU [Rodentia].

- _____ *centralis*. Thomas. 706.
 _____ *laenatus*. Thomas. 715.

COLOBUS [Primates].

- _____ *gallarum*. Neumann. 497.

COLODON [Perissodactyla].

- _____ *cingulatus* †. Douglass. 179.

CONEFATUS [Carnivora].

- _____ *huntii*. Thomas. 724.

CRICETULUS [Rodentia].

- _____ *atticus*. Nehring. 481.

CRICETUS [Rodentia].

- _____ *rulgar's*: *babylonius*
 n. subsp. Nehring. 492.

CROCIDURA [Insectivora].

- _____ *russula*: *cypria* n. subsp.
 Bates. 40.

CTENOMYS [Rodentia].

- _____ *azaras*. Thomas. 711.
 _____ *colburni*. Allen. 15.
 _____ *robustus*. Allen. 15.
 _____ *sericeus*. Allen. 15.

CYLINDRODON † n. gen. [Rodentia].

- _____ Douglass. 179.
 _____ *fontis* †. Douglass. 179.

CTYNOTICTIS [Carnivora].

- _____ *paterculus* †. Matthew.
 427A.

DASYPROCTA [Rodentia].

- _____ *lucifer*. Thomas. 718.
 _____ *lucifer*: *cayennae* n. subsp.
 Thomas. 718.

DENDRODEROOPSIS n. gen. [Marsupialia].

- _____ Rothschild. 582.
 _____ *woodwardi*. Rothschild. 582.

DENDROMYS [Rodentia].

- _____ *insignis*. Thomas. 723.
 _____ *messorius*. Thomas. 723.

DIOLIDURUS [Chiroptera].

- _____ *virgo*. Thomas. 715.

DIPHYLLA [Chiroptera].

- _____ *centralis*. Thomas. 715.

DIPODILLUS [Rodentia].

- _____ *henleyi*. De Winton. 164.

DIPOMYS [Rodentia].

- _____ *deserti*: *helleri* n. subsp.
 Elliot. 195.
 _____ *merriami*: *arenivagus*
 n. subsp. Elliot. 195.
 _____ *merriami*: *mortivallis* n.
 subsp. Elliot. 195.

DIPOIDES [Rodentia].

- _____ *majori* †. Schlosser. 611.

- DRYOPITHECUS** [Primates].
 — *darwini*. Abel. 1.
- ELEPHAS** [Subungulata].
 — *cypristes*. Bate. 41.
- ELIGMODONTIA** [Rodentia].
 — *morgani*. Allen. 8.
- ELIOMYS** [Rodentia].
 — *gymnesicus*. Thomas. 720.
 — *lerotinus*: *occidentalis* n. subsp. Thomas. 729.
 — *lerotinus*: *tunetæ* n. subsp. Thomas. 720.
- EOSACCOMYS** n. nom. [Rodentia]. Palmer. 528.
- ERETHIZON** [Rodentia].
 — *epizanthus*: *nigrescens* n. subsp. Allen. 16.
- ERINACEUS** [Insectivora].
 — *orientalis*. Allen. 14.
- EUCERVARIA** n. nom. [Carnivora]. Palmer. 528.
- EUCINEPELTUS** [Edentata].
 — *complicatus*†. Brown. 95.
- EUCROTAPHUS** [Artiodactyla].
 — *helenæ*†. Douglass. 179.
- EUMYS** [Rodentia].
 — *minor*†. Douglass. 179.
- EUNEOMYS** [Rodentia].
 — *petersoni*. Allen. 15.
- EUTAMIAS** [Rodentia].
 — *canicaudus*. Merriam. 439.
 — *durangæ*. Allen. 17.
- EVOTOMYS** [Rodentia].
 — *jochelsoni*. Allen. 14.
 — *latastei* n. nom. Allen. 14.
 — *scomerensis*. Hamilton. 269.
- FELIS** [Carnivora].
 — *aztecus*: *browni* n. subsp. Merriam. 439.
 — *concolor*: *pearsoni* n. subsp. Thomas. 731.
 — *glauca*. Thomas. 722.
 — *ingrami*. Bonhote. 70.
 — *pardinoides*: *andina* n. subsp. Thomas. 722.
 — *pardinoides*: *oneilla* n. subsp. Thomas. 722.
 — *ricketti*. Bonhote. 68.
 — *salinarum*. Thomas. 722.
 — *villosa*. Bonhote. 70.
- FERNARINA** n. gen. [Rodentia]. Thomas. 708.
- FUNAMBULUS** [Rodentia].
 — *obscurus*. Miller. 466.
 — *peninsulæ*. Miller. 466.
 — *rostratus*. Miller. 466.
- FUNISCIURUS** [Rodentia].
 — *mandingo*. Thomas. 710.
 — *raptorum*. Thomas. 710.
- GALEOPITHECUS** [Insectivora].
 — *aoris*. Miller. 466.
 — *gracilis*. Miller. 466.
 — *natunæ*. Miller. 466.
 — *pumilus*. Miller. 466.
 — *naturatus*. Miller. 466.
 — *tuancus*. Miller. 466.
- GALICTIS** [Carnivora].
 — *andina*. Thomas. 724.
- GAZELLA** [Artiodactyla].
 — *albonotata*. Rothschild. 583.
 — *altidens*†. Schlosser. 611.
 — *dorcadooides*†. Schlosser. 611.
 — *granti*: *robertsi* n. subsp. Thomas. 704.
 — *paleosinensis*†. Schlosser. 611.
- GENETTA** [Carnivora].
 — *guardafuensis*. Neumann. 500.
 — *hararensis*. Neumann. 500.
 — *matschei*. Neumann. 500.
 — *plesioides*. Bate. 39.
 — *terrae sanctæ*. Neumann. 500.
- GERBILUS** [Rodentia].
 — *agag*. Thomas. 703.
 — *riggenbachi*. Thomas. 729.
- GIRAFFA** [Artiodactyla].
 — *camelopardalis*: *angolensis* n. subsp. Lydekker. 399.
 — *congoensis* n. subsp. Lydekker. 398.
 — *rothschildi* n. subsp. Lydekker. 399.
- Glyptotherium** n. gen. [Edentata]. Osborn. 520.
 — *texanum*†. Osborn. 520.
- GORILLA** [Primates].
 — *beringeri*. Matschie. 425.
- Griphopithecus** n. gen. [Primates].
 — Abel. 1.
 — *suesi*. Abel. 1.
- GULO** [Carnivora].
 — *luteus*. Elliot. 195.
- HAPALE** [Primates].
 — *flaviceps*. Thomas. 722.

- Haliotragus** n. nom. [Artiodactyla].
Palmer. 528.
- HELIOTIS** [Carnivora].
—— *pierrei*. Bonhote. 71.
- HEMIGALE** [Carnivora].
—— *minor*. Miller. 466.
- HERPESTES** [Carnivora].
—— *hosei*. Jentink. 325.
—— *ruddi*. Thomas. 725.
- HETEROCEPHALUS** [Rodentia].
—— *ansorgei*. Thomas. 708.
- HIPPOSIDEROS** [Chiroptera].
—— *semoni*. Matschie. 426.
- HYAENA** [Carnivora].
—— *gigantea*†. Schlosser. 611.
- HYAENODON** [Carnivora].
—— *minutus*†. Douglass. 179.
—— *montanus*†. Douglass. 177.
- Hyasognathus**† n. gen. [Carnivora].
Merriam. 443.
—— *dubius*†. Merriam. 443.
—— *pachyodon*†. Merriam. 443.
- Hylonycteris** n. gen. [Chiroptera].
Thomas. 712.
—— *underwoodi*. Thomas. 712.
- Hyomys** n. gen. [Rodentia]. Thomas. 705.
—— *meeki*. Thomas. 705.
—— *marshi*†. Osborn. 519.
—— *uintensis*†. Osborn. 519.
—— *wortmani*†. Osborn. 519.
- HYPOGEOMIS** [Rodentia].
—— *australis*†*. Grandidier. 252.
- IOTOPS** [Insectivora].
—— *acutidens*†. Douglass. 179.
—— *thomsoni*†. Matthew. 427A.
- ISCHYROMYS** [Rodentia].
—— *veterior*†. Matthew. 427A.
- JACULUS** [Rodentia].
—— *gordoni*. Thomas. 703.
- KANNABATEOMYS** [Rodentia].
—— *amblyonyx*: *pallidior* n.
subsp. Thomas. 718
- LEGGADA** [Rodentia].
—— *tenella*. Thomas. 703.
- LEMNUS** [Rodentia].
—— *obenensis*: *chrysogaster* n.
subsp. Allen. 14.
- Lenothrix** n. gen. [Rodentia]. Miller.
465.
—— *canus*. Miller. 465.
- Leptoplesiactis**† n. gen. [Carnivora].
Major. 411.
—— *minor*†. Major. 411.
- LEPTOTRAGULUS** [Artiodactyla].
—— *profectus*†. Matthew. 427A.
- LEPUS** [Rodentia].
—— *capensis*: *centralis* n. subsp.
Thomas. 723.
—— *creticus*. Hamilton. 266.
—— *cyprius*. Hamilton. 266.
—— *durangae*. Allen. 17.
—— *gaillardii*: *battyi* n. subsp.
Allen. 17.
—— *gichiganus*. Allen. 14.
—— *harterti*. Thomas. 729.
—— *klamathensis*. Merriam.
442.
—— *laticinctus*. Elliot. 195.
—— *perplicatus* n.
subsp. Elliot. 195.
—— *rufipes* n. subsp.
Elliot. 195.
—— *monticularis*. Thomas. 709.
—— *parnassius*. Miller. 462.
—— *texianus*: *micropus* n. subsp.
Allen. 17.
- Limnasetes**† n. gen. [Artiodactyla].
Douglass. 179.
—— (?) *anceps*†. Douglass. 179.
—— *platyceps*†. Douglass. 179.
- Louphophyllia** n. gen. [Chiroptera].
Thomas. 724.
—— *mordez*. Thomas. 724.
- Lophocebus** n. nom. [Primates]. Palmer.
528.
- LUTRA** [Carnivora].
—— *brachygnathus*†. Schlosser.
611.
—— *concolor*. Neumann. 497.
- LUTREOLA** [Carnivora].
—— *macrodon*†. Prentiss. 546.
- LYNCUS** [Carnivora].
—— *chrysomelanotis*. Nehring.
485.
- LYNX** [Carnivora].
—— *fasciatus*: *pallescens* n.
subsp. Merriam. 442.
—— *rufus*: *escuinapae* n. subsp.
Allen. 18.
- MACACUS** [Primates].
—— *fuscus*. Miller. 465.
—— *pagensis*. Miller. 466.
—— *phaeura*. Miller. 466.
- MACHAERODUS** [Carnivora].
—— *horribilis*†. Schlosser. 611.
- MARMOSA** [Marsupialia].
—— *constantiae*. Thomas. 706.
- MASTODON** [Subungulata].
—— *lydekkeri*†. Schlosser. 611.

- Megalohyrax**† n. gen. [Subungulata].
 ——— Andrews. 22.
 ——— *eocaenus*†. Andrews. 22.
- MELES** [Carnivora].
 ——— *tazipater*†. Schlosser. 611.
- MERIONES** [Rodentia].
 ——— *blackleii*. Thomas. 721.
- Metacherrromys** n. gen. [Primates].
 ——— Wortman. 799.
 ——— *marshi*†. Wortman. 799.
- METACHIRUS** [Musupialia].
 ——— *nudicaudatus* : *bolirianus* n. subsp. Allen. 8.
- Micropternodus**† n. gen. [Insectivora].
 ——— Matthew. 427A.
 ——— *borealis*†. Matthew. 427A.
- MICROSYOPS** [Primates].
 ——— *schlosseri*†. Wortman. 799.
- MICROTUS** [Rodentia].
 ——— *hartingi*. Hamilton. 267.
 ——— *thomasi*. Hamilton. 267.
- MINIOPTERUS** [Chiroptera].
 ——— *inflatus*. Thomas. 727.
- Morenella** n. nom. [Rodentia]. Palmer. 528.
- Moschomys** n. nom. [Rodentia] Troues-sart. 742.
- Mus** [Rodentia].
 ——— *annandalei*. Bonhote. 73.
 ——— *atridorsum* n. nom. Miller. 460.
 ——— *balac*. Miller. 466.
 ——— *bentincanus*. Miller. 466.
 ——— *bukit*. Bonhote. 66.
 ——— *casensis*. Miller. 466.
 ——— *catellifer*. Miller. 465.
 ——— *domelicus*. Miller. 466.
 ——— *domitor*. Miller. 465.
 ——— *epimelas*. Nehring. 481.
 ——— *gilibiventer*. Miller. 466.
 ——— *griseiventer*. Bonhote. 73.
 ——— *hypoxanthus* : *bacchante* n. subsp. Thomas. 723.
 ——— *unyori* n. subsp. Thomas. 723.
 ——— *jalorensis*. Bonhote. 73.
 ——— *julianus*. Miller. 466.
 ——— *kina*. Bonhote. 66.
 ——— *lucas*. Miller. 466.
 ——— *lugens*. Miller. 466.
 ——— *luteolus*. Miller. 466.
 ——— *masas*. Miller. 466.
 ——— *matthaeus*. Miller. 466.
 ——— *mystacinus* : *smyrnensis* n. subsp. Thomas. 721.
- Mus** [Rodentia].
 ——— *pagensis*. Miller. 466.
 ——— *razit*. Bonhote. 66.
 ——— *simalurensis*. Miller. 465.
 ——— *soccatus*. Miller. 466.
 ——— *stridens*. Miller. 466.
 ——— *stridulus*. Miller. 466.
 ——— *surdus*. Miller. 465.
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 ——— Palmer. 528.
- NEACOMYS** [Rodentia].
 ——— *spinosus* : *amaenus* n. subsp. Thomas. 706.
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 ——— Palmer. 706.
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 ——— *squamipes* : *mattensis* n. subsp. Thomas. 706.
- NELSONIA** [Rodentia].
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- *monticola*: *pinetorum*
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 ————— *scapterus*. Elliot. 195.

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ERRATA IN FIRST ANNUAL ISSUE.

- p. 145, col. 2, l. 30, for 5803 read 2403.
 p. 216, col. 2, l. 35, for Jackel read Jaekel.
 p. 264, col. 1, l. 25, add 0030 6027 h.
 p. 277, for Okami read Ogami.
 p. 323, col. 2, l. 23, for 49 read 44.
 p. 340, col. 2, l. 42, for Thilo, Riga read Thilo, Otto.
 p. 375, col. 1, l. 39, for 5803 read 2403.
 p. 490, col. 2, insert *Stichorchis* n. subgen. (*Cladorchis*). Fischeoeder, F. Zool. Anz., Leipzig, 24, 1901, (373).
 p. 490, col. 2, insert *Taxorchis* n. subgen. (*Cladorchis*). Fischeoeder, F. Zool. Anz., Leipzig, 24, 1901, (373).
 p. 498, col. 2, l. 23, for *fastosa* read *fastosum*.
 p. 498, col. 2, insert *Stichorchis* [Trematoda]. n. subgen. Fischeoeder, F. 136.
 p. 499, col. 1, insert *Taxorchis* n. subgen. [Trematoda]. Fischeoeder, F. 1636.
 p. 511, col. 2, l. 26, delete "n. sp."
 p. 512, col. 1, ll. 11–13, delete *Metopidia solidus*. Wesché, W. 5706.
 p. 525, col. 2, l. 5, insert *D. godlewskii* n. sp.
 p. 527, col. 2, l. 5, for *carasinus* read *cerasinus*.
 p. 527, col. 2, l. 21, for *Thelepsus* read *Thelepus*.
 p. 528, col. 2, l. 1, for *Aelosoma* read *Aeolosoma*.
 p. 529, col. 2, l. 26, after "*T. masoni*, structure," insert "2 nn. spp."

- p. 530, col. 2, l. 8, for *Aelosoma* read *Aeolosoma*.
- p. 531, col. 1, l. 28, for *godlewski* read *godlewskii*.
- p. 533, col. 1, l. 42, for *carasinus* read *cerasinus*.
- p. 533, col. 2, l. 16, for *Thelepus* read *Thelepus*.
- p. 533, col. 2, after l. 33 insert (*Typhoeus*) *nicholsoni*. Beddard, F. E. 319.
- p. 673, col. 1, l. 5, for "Gadeau de Kerville, H." read "Mayer in Gadeau de Kerville, H."
- p. 673, col. 2, l. 15, for "Gadeau de Kerville, H." read "Chevreux, E. in Gadeau de Kerville, H."
- p. 688, col. 1, l. 40, for "Gadeau de Kerville, H." read "Mayer in Gadeau de Kerville, H."
- p. 691, col. 2, l. 14, for "Gadeau de Kerville, H." read "Chevreux, E. in Gadeau de Kerville, H."
- p. 1022, col. 1, l. 14, for *Noel* read *Noel*.
- p. 1024, col. 1, l. 21, transfer *Lindenius* to SPHEGIDAE.
- p. 1025, col. 1, l. 32, transfer the paper by *Baer* to SPHEGIDAE.
- p. 1025, col. 2, l. 26, transfer *Selandria* to TENTHREDINIDAE.
- p. 1162, col. 1, l. 5, for *Stereobalanus* read *Stereobalanus*.
- p. 1163, col. 1, l. 15, for *Stereobalanus* read *Stereobalanus*.
- p. 1312, col. 2, delete the entry under **Cambridge Entomological Club**.
- p. 1470, col. 1, after l. 23 insert (*Sciurus*) nn. spp. S. America. Thomas, O. Ann. Mag. Nat. Hist., London, (Ser. 7), 7, 1901, (192-196) nn. spp. British Guiana. Thomas, O. Ann. Mag. Nat. Hist., London, (Ser. 7), 8, 1901, (147-148).
- p. 1475, col. 2, l. 1, for *AELUROTHIUM* read *AELUROTHERIUM*.
- p. 1476, col. 2, after l. 21 insert (*CROCIDURA*) *macropygmaea*. Miller, G. S., Jr. 3583.
- p. 1479, col. 2, l. 16, for *Oodectes* read *Ooedectes*.
- p. 1480, col. 2, l. 11, for (*PALAESINORA*) *beadnelli* read (*PALAEOMASTODON*) *beadnelli*.
- p. 1482, col. 1, l. 38, for *lingunensis* read *lingungensis*.
- p. 1482, col. 2, l. 10, for *kuchinensis* read *kuchingensis*.
- p. 1482, col. 2, l. 29, for *baliolus* read *balliolus*.
- p. 1482, col. 2, l. 41, for *opisthotoma* read *opisthotona*.
- p. 1482, omitted from list of new *Sciuri*: *S. thauanensis*: *centralis* n. subsp. *roberti* n. subsp. Bonhote, J. L. 527; *S. baluensis*; *S. baluensis*: *suffusus* n. subsp. Bonhote, J. L. 528; *S. griseogena*: *meridensis* n. subsp., *S. otinus*. Thomas, O. 5318; *S. quelchi*; *S. macconelli*. Thomas, O. 5324.
- p. 1483, col. 1, l. 4, for *euronotus* read *eurynotus*.
- p. 1483, col. 1, l. 30, for *surdastus* read *surdaster*.
- p. 1483, col. 1, l. 32, for *postacae* read *postasae*.

ERRATA IN SECOND ANNUAL ISSUE.

- Part I, p. 350, col. 2, l. 27. Part II, p. 180, col. 2, l. 11; p. 182, col. 1, l. 14; p. 203, col. 2, l. 29; p. 204, col. 2, l. 42; p. 214, col. 1, l. 17; p. 222, col. 1, l. 39; p. 223, col. 2, l. 25, for Rep. Brit. Ass. read Guide to Belfast . . . prepared for . . . the British Association.
- p. 371, col. 1, l. 15, for Appell~~sf~~, A[nders] read Appell~~sf~~, A[dolf].
- p. 384, col. 1, l. 7, for Appell~~sf~~, A[nders] read Appell~~sf~~, A[dolf].

LIST OF JOURNALS WITH ABBREVIATED TITLES.

<i>Adelaide, S. Aust., Trans. R. Soc.</i>	Transactions of the Royal Society of S. Australia, Adelaide.	6 S. Aus.
<i>Agric. Exp. Sta., California, Berkeley, Bull.</i>	Bulletin of the Agricultural Experiment Station, California, Berkeley.	— U.S.
<i>Agric. Exp. Sta., Delaware, Newark, Bull.</i>	Bulletin of the Agricultural Experiment Station, Delaware, Newark.	— U.S.
<i>Agric. Exp. Sta., Florida, Lake City, Bull.</i>	Bulletin of the Agricultural Experiment Station, Florida, Lake City.	— U.S.
<i>Agric. Exp. Sta., Georgia, Experiment, Bull.</i>	Bulletin of the Agricultural Experiment Station, Georgia, Experiment.	— U.S.
<i>Agric. Exp. Sta., Kentucky, Lexington, Bull.</i>	Bulletin of the Agricultural Experiment Station, Kentucky, Lexington.	— U.S.
<i>Agric. Exp. Sta., Maine, Orono, Bull.</i>	Bulletin of the Agricultural Station, Maine, Orono.	— U.S.
<i>Agric. Exp. Sta., Massachusetts, Amherst, Bull.</i>	Bulletin of the Agricultural Experiment Station, Massachusetts, Amherst.	— U.S.
<i>Agric. Exp. Sta., Michigan, Agricultural College, Bull.</i>	Bulletin of the Agricultural Experiment Station, Michigan Agricultural College.	— U.S.
<i>Agric. Exp. Sta., Mississippi, Agricultural College, Bull.</i>	Bulletin of the Agricultural Experiment Station, Mississippi Agricultural College.	— U.S.
<i>Agric. Exp. Sta., Missouri, Missouri Station, Bull.</i>	Bulletin of the Agricultural Experiment Station, Missouri, Missouri Station.	— U.S.
<i>Agric. Exp. Sta., New Hampshire, Durham, Bull.</i>	Bulletin of the Agricultural Experiment Station, New Hampshire, Durham.	— U.S.
<i>Agric. Exp. Sta., New Jersey, New Brunswick, Bull.</i>	Bulletin of the Agricultural Experiment Station, New Jersey, New Brunswick.	— U.S.
<i>Agric. Exp. Sta., New Mexico, Mesilla Park, Bull.</i>	Bulletin of the Agricultural Experiment Station, New Mexico, Mesilla Park.	— U.S.
<i>Agric. Exp. Sta., New York (Cornell station), Ithaca, Bull.</i>	Bulletin of the Agricultural Experiment Station, New York (Cornell station), Ithaca.	— U.S.
<i>Agric. Exp. Sta., New York (State Station), Geneva, Bull.</i>	Bulletin of the Agricultural Experiment Station, New York (State station), Geneva.	— U.S.
<i>Agric. Exp. Sta., Oklahoma, Stillwater, Bull.</i>	Bulletin of the Agricultural Station, Oklahoma, Still Water.	— U.S.

<i>Agric. Exp. Sta., Oregon, Corvallis, Rep.</i>	Report of the Agricultural Experiment Station, Oregon, Corvallis.	— U.S.
<i>Agric. Exp. Sta., Wyoming, Laramie, Bull.</i>	Bulletin of the Agricultural Experiment Station, Wyoming, Laramie.	— U.S.
<i>Agric. Gaz., Sydney, N.S.W.</i>	Agricultural Gazette, Sydney, N.S.W. ...	1 N.S.W.
<i>Agricolt. Ticinese, Lugano</i>	L'Agricoltore ticinese. Lugano. 8vo.	3 Swi.
<i>Albany Univ., N.Y., Bull. St. Mus.</i>	Bulletin of the New York State Museum. University of the State of New York, Albany, N.Y.	4 U.S.
<i>Albany Univ., N.Y., Mem. St. Mus.</i>	Memoirs of the New York State Museum. University of the State of New York, Albany, N.Y.	5 U.S.
<i>Albany Univ., N.Y., Rep. St. Mus.</i>	Report of the New York State Museum. University of the State of New York, Albany, N.Y.	6 U.S.
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<i>Wood's Holl, Mass., Mar. Biol. Lab. Bull.</i>	Marine Biological Laboratory. Biological Bulletin, Wood's Holl, Mass.	535 U.S.
<i>Würzburg, SitzBer. physik. Ges.</i>	Sitzungsberichte der physikalisch-medizinischen Gesellschaft zu Würzburg. Würzburg. [jährh. in zwangl. H.]	1140 Ger.
<i>Würzburger Abh. prakt. Med.</i>	Würzburger Abhandlungen aus dem Gesamtgebiete der praktischen Medicin. Würzburg. [zwanglos.]	1142 Ger.
<i>Wzzechświat, Warszawa ...</i>	Wzzechświat, tygodnik poświęcony naukom przyrodniczym, red. Br. Znatowicz, Warszawa. 4to. [weekly.]	57 Pol.
<i>Ymer, Stockholm ...</i>	Ymer. Tidskrift utgifven af Svenska Sällskapet för Antropologi och Geografi. Stockholm. 8vo.	61 Swe.
<i>Yorks. Proc. Geol. Polyt. Soc.</i>	Proceedings of the Yorkshire Geological and Polytechnic Society, Halifax.	430 U.K.
<i>Zdrowie, Warszawa ...</i>	Zdrowie, red. W. Janowski, Warszawa, 8vo. [monthly.]	59 Pol.
<i>Zemledělec, St. Peterburg ...</i>	Земледěлецъ. Иллюстрированный Журналъ по сельскому хозяйству и естествознанию. О.-Петербургъ [L'agronome. Journal illustré d'agriculture et de sciences naturelles. St.-Petersbourg.]	449 Rus.
<i>Zool. Ans., Leipzig ...</i>	Zoologischer Anzeiger, hrg. v. Carus. Leipzig. [2-3 Nrn monat.]	1148 Ger.
<i>Zool. Centralbl., Leipzig ...</i>	Zoologisches Centralblatt, hrg. v. Schuberg. Leipzig. [referierend, 26 Nrn jährh.]	1149 Ger.
<i>Zool. Garten, Frankfurt a. M</i>	Der zoologische Garten, hrg. v. d. neuen zoologischen Gesellschaft in Frankfurt a. M. Frankfurt a. M. [monatl.]	1150 Ger.
<i>Zool. Jahrb., Jena ...</i>	Zoologische Jahrbücher, hrg. v. Spengel. 1. Abth. für Anatomie. 2. Abth. für Systematik. Jena. [Die Abth. 4 H. jährh.] Nebst Supplementen.	1151 Ger.
<i>Zool. Rec., London ...</i>	The Zoological Record, London...	435 U.K.
<i>Zoologica, Stuttgart</i>	Zoologica. Original-Abhandlungen aus dem Gesamtgebiete der Zoologie, hrg. v. Chun. Stuttgart. [3-4 H. jährh.]	1153 Ger.
<i>Zoologist, London ...</i>	The Zoologist, London. 8vo. ...	434 U.K.
<i>Zs. allg. Physiol., Jena</i>	Zeitschrift für allgemeine Physiologie, hrg. v. Max Verworn. Jena. [unbestimmt.]	1279 Ger.
<i>Zs. Biol., München ...</i>	Zeitschrift für Biologie, hrg. v. Kühne u. Voit. München. [$\frac{1}{4}$ jährh.]	1168 Ger.

<i>Zs. Fischerei, Berlin</i> ...	Zeitschrift für Fischerei und deren Hilfswissenschaften, hrag. im Auftrage des Deutschen Fischerei-Vereins von P. Schiemenz und F. Fischer. Berlin.	1280 Ger.
<i>Zs. Forstw., Berlin</i> ...	Zeitschrift für Forst- und Jagdwesen. Berlin. [monatl.]	1184 Ger.
<i>Zs. Hyg., Leipzig</i> ...	Zeitschrift für Hygiene und Infektionskrankheiten, hrag. v. Koch. u. Flügge. Leipzig. [8 H. jährl.]	1193 Ger.
<i>Zs. Hymenopter., Teschen- dorf</i>	Zeitschrift für systematische Hymenopterologie und Dipterologie, hrag. v. Konow. Teschendorf bei Stargard. [2 monatl.]	1194 Ger.
<i>Zs. Ornith., Stettin...</i> ...	Zeitschrift für Ornithologie und praktische Geflügelzucht. Organ des Verbandes der ornithologischen Vereine Pommerns. Stettin. [monatl.]	1218 Ger.
<i>Zs. päd. Psychol., Berlin</i> ...	Zeitschrift für pädagogische Psychologie, hrag. v. Kemaies. Berlin. [2 monatl.]	1220 Ger.
<i>Zs. Pflanzenkrankh., Stutt- gart</i>	Zeitschrift für Pflanzenkrankheiten, hrag. v. Sorauer. Stuttgart. [2 monatl.]	1222 Ger.
<i>Zs. Morph., Stuttgart</i> ...	Zeitschrift für Morphologie und Anthropologie, hrag. v. Schwalbe. Stuttgart. [zwanglos.]	1213 Ger.
<i>Zs. Natw., Stuttgart</i> ...	Zeitschrift für Naturwissenschaften. Organ des naturwissenschaftlichen Vereins für Sachsen und Thüringen. Stuttgart. [2 monatl.]	1214 Ger.
<i>Zs. wiss. Mikrosk., Leipzig</i>	Zeitschrift für wissenschaftliche Mikroskopie und mikroskopische Technik, hrag. v. Behrens. Leipzig. [4 jährl.]	1248 Ger.
<i>Zs. wiss. Zool., Leipzig</i> ..	Zeitschrift für wissenschaftliche Zoologie, hrag. v. Kölliker u. Ehlers. Leipzig. [8 H. jährl.]	1249 Ger.
<i>Zürich, Mitt. Schweiz. Forstl. Versuchsw.</i>	Mitteilungen der schweizerischen Centralanstalt für das forstliche Versuchswesen. Zürich. 8vo.	123 Swi.
<i>Zürich, Vierteljahrsch. Natf. Ges.</i>	Vierteljahrsschrift der naturforschenden Gesellschaft in Zürich. Zürich and München. 8vo.	125 Swi.

*The numbers in the right-hand column are those used in the
General List of Journals.*

International Catalogue of Scientific Literature.

I.—TOPOGRAPHICAL CLASSIFICATION.

[To be used in connexion with Geography, Geology, Botany,
Zoology, etc.]

1.—MAIN DIVISIONS.

- a.* The Earth as a whole.
- b.* Land as a whole.
- c.* Ocean as a whole.
- d.* Europe and Mediterranean Islands.
- e.* Asia and Malay Archipelago, Celebes and Timor inclusive.
- f.* Africa and Madagascar.
- g.* North America to boundary between United States and Mexico.
- h.* Mexico, Central and South America, and West Indian Islands.
- i.* Australia, Tasmania and New Zealand, with New Guinea, Gilolo, and Moluccas to west, and including the Solomon Islands, New Hebrides, and New Caledonia to east.
- k.* Arctic: Greenland and the area north of the Arctic Circle, or of the coasts of Continental America, Asia, and Europe, whichever is farther north.
- l.* Atlantic and Islands from Arctic Circle to Lat. 45° S.—the southern portion bounded on the east by the meridian 20° E. of Greenwich, south of the coast of Africa; and on the west by the coast of South America.
- m.* Indian Ocean and Islands limited on the south by Lat. 45° S.; on the west by the meridian 20° E. of Greenwich; on the east by the coast of Australia and the meridian 147° E. of Greenwich.
- n.* Pacific and Islands from the Arctic Circle to Lat. 45° S., and between the meridian 147° E. of Greenwich and the coast of South America.
- o.* Antarctic: the area south of 45° S. except the Falkland Islands and the southern parts of South America and New Zealand; but including the islands of New Amsterdam and St. Paul.

N.B.—As a general rule, Islands more than 100 miles from the continent to be classed as Oceanic, unless specially excepted.

2. SUB-DIVISIONS.

d. EUROPE AND MEDITERRANEAN ISLANDS.

- da.* Scandinavia : Sweden, Norway, Denmark, Iceland, Faeroes.
- db.* Russia in Europe.
- dc.* German Empire.
- dd.* Holland ; Belgium ; Luxemburg.
- de.* British Islands.
- df.* France and Corsica.
- dg.* Spain and Portugal.
- dh.* Italy : Sicily and Sardinia.
- di.* Switzerland.
- dk.* Austria-Hungary (Bosnia and Herzegovina included).
- dl.* Balkan Peninsula (Turkey in Europe, Roumania, Bulgaria, Servia, Montenegro, and Greece).
- dm.* Mediterranean and Islands (excluding Sicily, Sardinia, and Corsica).
- dn.* Black Sea.
- do.* Baltic and Islands.

e. ASIA AND MALAY ARCHIPELAGO.

- ea.* Asiatic Russia.
- eb.* China and Dependencies : Tibet ; Corea.
- ec.* Japanese Islands ; Formosa.
- ed.* Cochin China : Tonquin, Annam.
- ee.* Siam.
- ef.* British India : Himalaya ; Burmah ; Ceylon.
- eg.* Malay Peninsula from Isthmus of Kra and Archipelago to Wallace's line, including Celebes and Timor, with the Philippines and China Sea.
- eh.* Persia ; Afghanistan ; Baluchistan.
- ei.* Asiatic Turkey ; Arabia.
- ek.* Caspian.
- el.* Persian Gulf.

f. AFRICA AND MADAGASCAR.

- fa.* Mediterranean States—Marocco, Algiers, Tunis, Tripoli.
- fb.* N.E. Africa ; Egypt and Nile Valley to Lat. 10° N. ; Abyssinia ; African Coast of Red Sea.
- fc.* Sahara and the French Sudan ; Darfur, etc.
- fd.* West Africa, from Marocco to the Congo.
- fe.* Congo State and Angola.
- ff.* East Africa, from the Southern border of *fb* to the Zambezi ; Socotra.
- fg.* South Africa—South of the Zambezi and of the boundary between Portuguese and German S.W. Africa.
- fh.* Madagascar and Comoro Group.
- fi.* Red Sea and Islands.

g. NORTH AMERICA.

- ga.* Alaska.
- gb.* Canada as a whole.
- gc.* Canadian Dominion West (Yukon, British Columbia, Mackenzie, Athabasca, Alberta, Saskatchewan, Assiniboia).
- gd.* Canadian Dominion East; Newfoundland.
- ge.* The Laurentian Lakes.
- gf.* United States as a whole.
- gg.* North Eastern United States, East of Mississippi (Maine, Vermont, New Hampshire, New York, Massachusetts, Connecticut, Rhode Island, Pennsylvania, New Jersey, Ohio, Michigan, Wisconsin, Illinois, Indiana).
- gh.* South Eastern United States, East of Mississippi.
- gi.* Western United States, West of Mississippi.

h. CENTRAL AND SOUTH AMERICA AND WEST INDIES.

- ha.* Mexico.
- hb.* Central America: Guatemala; Honduras; British Honduras; Salvador; Nicaragua; Costa Rica.
- hc.* West Indian Islands; Caribbean Sea; Gulf of Mexico.
- hd.* Guiana—British, Dutch, and French; Venezuela; Trinidad.
- he.* Columbia; Ecuador.
- hf.* Peru.
- hg.* Bolivia.
- hh.* Brazil.
- hi.* Argentina; Uruguay and Paraguay.
- hk.* Chili.
- hl.* Tierra del Fuego and neighbouring islands; Falkland Islands.
- hm.* The Andes.

i. AUSTRALASIA.

- ia.* New Guinea with Islands from Wallace's line, including Gilolo, Amboina, Ceram.
- ib.* Bismarck Archipelago (New Britain, etc., to Solomon Islands inclusive).
- ic.* Australia as a whole.
- id.* Queensland.
- ie.* New South Wales.
- if.* Victoria.
- ig.* South Australia.
- ih.* West Australia.
- ii.* Tasmania.
- ik.* New Zealand.
- il.* New Caledonia, New Hebrides, and Loyalty Islands.

k. ARCTIC.

- ka.* Arctic Ocean.
- kb.* Greenland.
- kc.* Archipelago north of North America.
- kd.* Islands north of Europe and Asia.

l. ATLANTIC.

- la.* North Atlantic Ocean and Islands not otherwise specified.
- lb.* Azores; Canaries; Madeira; Cape Verde.
- lc.* South Atlantic and Islands.

m. INDIAN OCEAN.

- ma.* Ocean and Islands N. of Equator.
- mb.* Ocean and Islands S. of Equator, including Mascarene Islands, Amsterdam, and St. Paul.

n. PACIFIC.

- na.* North Pacific Ocean (North of Equator).
- nb.* South Pacific Ocean (South of Equator).
- nc.* Behring Sea and Islands (Aleutian Archipelago, etc.).
- nd.* Sandwich Islands and scattered groups N. of Equator and E. of 180°.
- ne.* Ladrone, Pelew, Caroline and Marshall Groups, with other Islands N. of Equator and W. of 180°.
- nf.* Fiji Islands, Friendly Islands, Samoa, Ellice, Phoenix Islands, etc., west of Meridian 160° W. of Greenwich.
- ng.* Galapagos Islands.
- nh.* Society Islands, Low Archipelago, Marquesas, and other Islands of S. Pacific, east of Meridian 160° W. of Greenwich.

o. ANTARCTIC.

- oa.* Antarctic Continent as a whole.
- ob.* S. Georgia, Sandwich Groups, and other Islands S. of S. Atlantic.
- oc.* Prince Edward Island, Crozets, Kerguelen, and other Islands S. of Indian Ocean.
- od.* Islands to Southward and South-east of New Zealand and Area South of Pacific.

Internationaler Katalog der naturwissenschaftlichen Litteratur.

I — TOPOGRAPHISCHE CLASSIFICATION.

[In Verbindung mit Geographie, Geologie, Botanik, Zoologie etc., zu benutzen.]

1. — HAUPT-ABSCHNITTE.

- a. Die Erde als Ganzes.
- b. Das Festland als Ganzes.
- c. Der Ocean als Ganzes.
- d. Europa und die Inseln im Mittelländischen Meere.
- e. Asien und der Malayische Archipel, einschliesslich Celebes und Timor.
- f. Africa und Madagaskar.
- g. Nord-Amerika bis zur Grenze zwischen den Vereinigten Staaten und Mexiko.
- h. Mexiko, Central- und Sud-Amerika, Westindische Inseln.
- i. Australien, Tasmanien und Neu-Seeland, mit Neu-Guinea, Gilolo und Molukken nach Westen, und mit Salomo-Inseln, Neuen Hebriden und Neu-Caledonien nach Osten.
- k. Arktisches Gebiet: Grönland und der vom Polarkreis umschlossene Raum, insbesondere die jenseits desselben gelegenen Kütenländer von Amerika, Asien und Europa.
- l. Atlantisches Gebiet mit seinen Inseln vom Polarkreis bis 45° S. Br.; der südliche Theil wird südliche von Afrika nach Osten durch den Meridian 20° O. [v. Gr.] begrenzt und reicht im Westen bis zur Küste von Sud-Amerika.
- m. Der Indische Ocean mit seinen Inseln reicht im Süden bis 45° S. Br.; im Westen bis 20° O. L., im Osten bis zur Küste von Australien und dem Meridian 140° O. L.
- n. Pacifisches Gebiet mit seinen Inseln, vom Nordpolarkreis bis 45° S. Br., im südlichen Theil begrenzt durch den Meridian 147° O. L. nach Westen, und die Küste von Sud-Amerika nach Osten.
- o. Antarktisches Gebiet, umfassend das Gebiet südlich von 45° S. Br., mit Ausschluss der Falklands-Inseln, der südlichen Theile von Sud-Amerika und Neu-Seelands, aber einschliesslich der Inseln Neu-Amsterdam und St. Paul.

N.B.—Allgemeine Regel: Inseln, die mehr als 100 englische Meilen (160 Kilometer) vom Festland entfernt sind, sind, falls nicht besonders ausgenommen, als oceanisch zu classificiren.

2. UNTERABTHEILUNGEN.

- d.* EUROPA UND DIE INSELN IM MITTELLÄNDISCHEN MEERE.
- da.* Skandinavien: Schweden, Norwegen, Dänemark, Island Faröer.
- db.* Des Europäische Russland.
- dc.* Das Deutsche Reich.
- dd.* Holland; Belgien; Luxemburg.
- de.* Die Britischen Inseln.
- df.* Frankreich und Corsica.
- dg.* Spanien und Portugal.
- dh.* Italien, met Sicilien und Sardinien.
- di.* Die Schweiz.
- dk.* Oesterreich-Ungarn (einschliesslich Bosnien und Herzegowina).
- dl.* Die Balkan - Halbinsel (Europäische Türkei, Rumänien, Bulgarien, Serbien, Montenegro, Griechenland).
- dm.* Das Mittelländische Meer mit seinen Inseln (mit Ausschluss von Sicilien, Sardinien und Corsica).
- dn.* Das Schwarze Meer.
- do.* Die Ostsee mit ihren Inseln.

e. ASIEN UND DER MALAYISCHE ARCHIPFL.

- ea.* Asiatisches Russland.
- eb.* China und zugehörige Länder; Tibet; Korea.
- ec.* Japanische Inseln; Formosa.
- ed.* Cochinchina; Tonking, Annam.
- ee.* Siam.
- ef.* Britisch-Indien, einschliesslich Himalaya, Burma, Ceylon.
- eg.* Malayische Halbinsel südlich vom Isthmus von Kra, und Malayischer Archipel bis zu Wallace's Linie, einschliesslich Celebes und Timor; Philippinen; Chinesisches Südmeer.
- eh.* Persien; Afghanistan; Belutschistan.
- ei.* Asiatische Türkei; Arabien.
- ek.* Das Kaspische Meer.
- el.* Der Persische Golf.

f. AFRIKA UND MADAGASKAR.

- fa.* Die Mittelmeer-Staaten: Marokko, Algier, Tunis, Tripolis.
- fb.* Nordost-Afrika: Egypten und Nilthal bis 10° N. Br.; Abessynien; afrikanische Küste des Rothen Meeres.
- fc.* Die Sahara und der französische Sudan; Darfur etc.
- fd.* West-Afrika, von Marokko bis zum Kongo.
- fe.* Kongo-Staat und Angola.
- ff.* Ostafrika, von der südlichen Grenze von *fb.* bis zum Sambesi; Sokotra.
- fg.* Sud-Afrika, südlich des Sambesi und der Grenze zwischen Portugiesisch und Deutsch Südwest-Afrika.
- fh.* Madagaskar und Komoren.
- fi.* Das Rothe Meer mit seinen Inseln.

g. NORD-AMERIKA.

- ga.* Alaska.
- gb.* Canada als Ganzes.
- gc.* West-Canadisches Gebiet: Yukon, Britisch-Columbia, Mackenzie, Athabasca, Alberta, Saskatchewan, Assiniboia.
- gd.* Ost-Canadisches Gebiet; Neufundland.
- ge.* Gebiet der Laurentischen Seen.
- gf.* Vereinigte Staaten als Ganzes.
- gg.* Nordosten der Vereinigten Staaten, östlich vom Mississippi (Maine, Vermont, New Hampshire, New York, Massachusetts, Connecticut, Rhode Island, Pennsylvania, New Jersey, Ohio, Michigan, Wisconsin, Illinois, Indiana).
- gh.* Südosten der Vereinigten Staaten, östlich vom Mississippi.
- gi.* Westen der Vereinigten Staaten, westlich vom Mississippi.

h. CENTRAL-AMERIKA, SÜD-AMERIKA, WEST-INDIEN.

- ha.* Mexiko.
- hb.* Central-Amerika: Guatemala, Honduras; Britisch-Honduras; Salvador; Nicaragua; Costa Rica.
- hc.* Westindische Inseln; Caraibisches Meer; Golf von Mexiko.
- hd.* Guyana: Britisch, Niederländisch und Französisch; Venezuela; Trinidad.
- he.* Columbia; Ecuador.
- hf.* Peru.
- hg.* Bolivia.
- hh.* Brasilien.
- hi.* Argentinien; Uruguay und Paraguay.
- hk.* Chile.
- hl.* Feuerland und benachbarte Inseln; Falkland Inseln.
- hm.* Die Anden.

i. AUSTRALASIEN.

- ia.* Neu-Guinea, nebst Inseln im Osten von Wallace's Linie, einschliesslich Gilolo, Amboina, Ceram.
- ib.* Bismarck-Archipel (Neu-Pommern etc. bis Salomo-Inseln).
- ic.* Australien als Ganzes.
- id.* Queensland.
- ie.* Neu-Süd-Wales.
- if.* Victoria.
- ig.* Süd-Australien.
- ih.* West-Australien.
- ii.* Tasmanien.
- ik.* Neu-Seeland.
- il.* Neu-Caledonien, Neue Hebriden und Loyalty Inseln

k. ARKTISCHES GEBIET.

- ka.* Der Arktische Ocean.
- kb.* Grönland.
- kc.* Archipel nördlich von Nord-Amerika.
- kd.* Inseln nördlich von Europa und Asien.

l. ATLANTISCHES GEBIET.

- la.* Der Nordatlantische Ocean mit seinen Inseln, soweit sie nicht anderweit eingereiht sind.
- lb.* Azoren; Kanaren; Madeira; Cap Verde.
- lc.* Der Sudatlantische Ocean mit seinen Inseln.

m. INDISCHER OCEAN.

- ma.* Ocean und Inseln nördlich vom Aequator.
- mb.* Ocean und Inseln südlich vom Aequator, einschliesslich Maskarenen, Neu-Amsterdam und St. Paul.

n. PACIFISCHES GEBIET.

- na.* Nordpazifischer Ocean (nördlich vom Aequator).
- nb.* Sudpazifischer Ocean (südlich vom Aequator).
- nc.* Berings Meer, nebst Inseln (Aleuten-Archipel etc.).
- nd.* Sandwich-Inseln und zerstreute Gruppen nördlich von Aequator und östlich vom 180. Grad.
- ne.* Ladronen-, Palau-, Carolinen- und Marshall-Gruppen, nebst andern Inseln nördlich vom Aequator und Westlich vom 180. Grad.
- nf.* Fidzchi-Inseln, Freundschafts-Inseln, Samoa, Ellice-Inseln, Phönix-Inseln etc., westlich vom Meridian 160° W. L.
- ng.* Galapagos-Inseln.
- nh.* Gesellschafts-Inseln, Niedrige Inseln, Marquesas- und andere Inseln des südlichen Pacifischen Oceans, östlich vom Meridian 160° W. L.

o. ANTARCTISCHES GEBIET.

- oa.* Der Antarktische Kontinent als Ganzes.
- ob.* Sud-Georgien, Sandwich-Gruppen, und andere Inseln südlich vom sudatlantischen Gebiet.
- oc.* Prince Edward-Insel, Crozet-Inseln, Kerguelen- und andere Inseln südlich vom Indischen Ocean.
- od.* Inseln südlich und südöstlich von Neu-Seeland, und Gebiet südlich des Pacifischen Oceans.

Catalogue International de la Littérature Scientifique.

CLASSIFICATION TOPOGRAPHIQUE.

[Cette classification sera appliquée à la géographie, à la géologie, à la botanique, à la zoologie, etc.]

I — GRANDES DIVISIONS.

- a.* Données d'ensemble relatives au globe terrestre.
- b.* Données d'ensemble relatives aux continents.
- c.* Données d'ensemble relatives aux océans.
- d.* Europe et îles méditerranéennes.
- e.* Asie et Archipel Malais, Célèbes et Timor inclus.
- f.* Afrique et Madagascar.
- g.* Amérique du Nord [en prenant comme limite celle qui sépare les États-Unis du Mexique].
- h.* Le Mexique, Amérique centrale et méridionale avec les Antilles.
- i.* Australie, Tasmanie et Nouvelle Zélande avec la Nouvelle Guinée, Gilolo et les Moluques à l'ouest, les îles Salomon, les Nouvelles Hébrides et la Nouvelle Calédonie à l'est.
- k.* Régions arctiques : Groenland et surface polaire s'étendant des côtes américaines, asiatiques et européennes à l'extrême nord.
- l.* Atlantique avec les îles comprises entre le cercle polaire arctique et le 45° de lat. S. Partie sud de l'Atlantique limitée à l'est par le méridien 20° E. (Greenwich), au sud de l'Afrique; et à l'ouest par le côte de l'Amérique du sud.
- m.* Cécân Indien avec les îles situées dans l'espace limité dans le sud par le 45° de lat. S.; à l'ouest par le méridien 20° E. (Greenwich); dans l'est par la côte australienne et le méridien 147° E. (Greenwich).
- n.* Le Pacifique avec les îles comprises, en latitude, du cercle polaire arctique au 45° de lat. S.; en longitude, du méridien 147° E. (Greenwich) à la côte de l'Amérique du sud.
- o.* Régions antarctiques: depuis le 45° de lat. S., moins les Falkland, la pointe sud de l'Amérique méridionale et la Nouvelle Zélande, mais en y comprenant les îles St. Paul et Nouvelle Amsterdam.

N.B.—En général les îles qui se trouvent à plus de 160 à 185 kilomètres du continent sont classées comme îles océaniques, à moins que le contraire ne soit stipulé spécialement.

II.—SUBDIVISIONS.

d. EUROPE ET ÎLES MÉDITERRANÉENNES.

- da.* Scandinavie : Suède, Norvège, Danemark, Islande, îles Feroë.
- db.* Russie d'Europe.
- dc.* Empire Germanique.
- dd.* Hollande ; Belgique ; Luxembourg.
- de.* Îles Britanniques.
- df.* France et Corse.
- dg.* Espagne et Portugal.
- dh.* Italie ; Sicile et Sardaigne.
- di.* Suisse.
- dk.* Autriche-Hongrie (Bosnie et Herzégovine inclus).
- dl.* Péninsule Balkanique (Turquie d'Europe, Roumanie, Bulgarie, Serbie, Monténégro et Grèce).
- dm.* Méditerranée avec ses îles (moins la Sicile, la Sardaigne, et la Corse).
- dn.* Mer Noire.
- do.* La Baltique et ses îles.

e. ASIE ET ARCHIPEL MALAIS.

- ea.* Asie russe.
- eb.* Chine et dépendances ; Thibet ; Corée.
- ec.* Archipel du Japon ; Formose.
- ed.* Cochinchine. Tonkin. Annam. Cambodge.
- ee.* Siam.
- ef.* Indes Britanniques : Himalaya ; Burma, Ceylan.
- eg.* La Péninsule Malaise depuis l'isthme de Kra ; et l'Archipel Malais jusqu'à la ligne séparative de Wallace, y compris Célèbes, Timor, les Philippines et la Mer de Chine.
- eh.* Perse ; Afghanistan ; Bélouchistan.
- ei.* Turquie d'Asie ; Arabie.
- ek.* Mer Caspienne.
- el.* Golfe persique.

f. AFRIQUE ET MADAGASCAR.

- fa.* Pays méditerranéens : Maroc, Algérie, Tunisie, Tripoli.
- fb.* N.E. Africain ; Egypte et la vallée du Nil depuis le 10° de lat. N. ; Abyssinie ; côte africaine de la Mer Rouge.
- fc.* Le Sahara et le Soudan français ; Darfour, etc.
- fd.* Ouest africain, du Maroc au Congo.
- fe.* Etat du Congo et Angola.
- ff.* Est africain, depuis la bordure sud de *fb* au Zambèze, Socotora.

fg. Sud africain—Au sud du Zambèze et de la limite entre les possessions portugaises et allemandes du sud-ouest de l'Afrique.

fh. Madagascar et groupe des Comores.

ji. La Mer Rouge et ses îles.

g. AMÉRIQUE DU NORD.

ga. Alaska.

gb. Le Canada dans son entier.

gc. Puissance du Canada de l'ouest (Yukon, Colombie Britannique, Mackenzie, Athabasca, Alberta, Saskatchewan, Assiniboia).

gd. Puissance du Canada de l'est ; Terre neuve.

ge. Région des grands lacs laurentiens.

gf. États-Unis.

gg. États-Unis du Nord-Est, à l'est du Mississipi (Maine, Vermont, New Hampshire, New York, Massachusetts, Connecticut, Rhode Island, Pennsylvanie, New Jersey, Ohio, Michigan, Wisconsin, Illinois, Indiana).

gh. États-Unis du sud-est, à l'est du Mississipi.

gi. États-Unis de l'ouest, à l'ouest du Mississipi.

h. AMÉRIQUE CENTRALE ET MÉRIDIONALE ; INDES OCCIDENTALES.

ha. Mexique.

hb. Amérique centrale : Guatemala ; Honduras ; Honduras britannique ; Salvador ; Nicaragua ; Costa Rica.

hc. Antilles ; Mer Caraïbe ; Golfe du Mexique.

hd. Guyanes britannique, hollandaise, et française ; Vénézuéla ; île de Trinité.

he. Colombie. Ecuador.

hf. Pérou.

hg. Bolivie.

hh. Brésil.

hi. République Argentine ; Uruguay et Paraguay.

hk. Chili.

hl. Terre de feu et îles voisines ; les Falkland (Malouines).

hm. Les Andes.

i. AUSTRALIE.

ia. Nouvelle Guinée avec les îles de la ligne séparative de Wallace, en y comprenant Gilolo, Amboine, Ceram.

ib. Archipel de Bismarck (Nouvelle Bretagne avec les îles Salomon).

ic. L'Australie en son entier

id. Queensland.

ie. Nouvelle Galles du sud

if. Victoria.

ig. Australie du sud.

- ih.* Australie occidentale.
- ii.* Tasmanie.
- ik.* Nouvelle Zélande.
- il.* Nouvelle Calédonie, Nouvelles Hébrides et les îles Loyauté.

k. RÉGIONS ARCTIQUES.

- ka.* Océan arctique.
- kb.* Groenland.
- kc.* Archipel nord de l'Amérique du Nord.
- kd.* Îles au nord d'Europe et d'Asie (Spitzberg, etc.).

l. ATLANTIQUE.

- la.* Océan Atlantique septentrional et les îles qui n'ont pas encore été spécifiées.
- lb.* Açores; Canaries; Madère; Cap Vert.
- lc.* Atlantique méridional et ses îles.

m. Océan Indien.

- ma.* Océan et les îles au nord de l'Equateur.
- mb.* Océan et les îles au sud de l'Equateur, avec les Mascareignes et les îles Amsterdam et St. Paul.

n. PACIFIQUE.

- na.* Pacifique septentrional (au nord de l'Equateur).
- nb.* Pacifique méridional (au sud de l'Equateur).
- nc.* Mer de Behring et ses îles (Aléoutiennes . . . etc.).
- nd.* Îles Sandwich, avec les groupes situés au nord de l'Equateur et à l'est du 180°.
- ne.* Mariannes, Pelew, archipel des Carolines et de Marshall, avec les autres îles situées au nord de l'Equateur et à l'ouest du 180°.
- nf.* Îles Fidji, îles des Amis (Tonga, Samoa, Ellice, Phénix et autres) situées à l'ouest du méridien 160° O. (Greenwich).
- ng.* Îles Galapagos.
- nh.* Îles de la Société, Pomoutou, Marquises et autres îles du Pacifique méridional à l'est du méridien 160° O. (Greenwich).

o. RÉGIONS ANTARCTIQUES.

- oa.* Continent antarctique dans son entier.
- ob.* Géorgie du Sud, groupe des Sandwichs et autres îles au S. de l'Atlantique méridional.
- oc.* Îles du Prince Edouard, Crozet, Kerguelen et autres îles au S. de l'Océan Indien.
- od.* Îles au sud et au sud-est de la Nouvelle Zélande et régions méridionales du Pacifique.

Catalago Internazionale della Letteratura Scientifica.

I.—CLASSIFICAZIONE TOPOGRAFICA.

[Da usarsi in rapporto con la Geografia, Geologia, Botanica, Zoologia, ecc.]

1.—DIVISIONI PRINCIPALI.

- a. La Terra nel suo complesso.
- b. Le terre emerse.
- c. L'oceano nel suo complesso.
- d. Europa e Isole del Mediterraneo.
- e. Asia e Arcipelago Malese, comprese Celebes e Timor.
- f. Africa e Madagascar.
- g. America settentrionale fino al limite tra gli Stati Uniti e il Messico.
- h. Messico, America Centrale e Meridionale, e Indie Occidentali.
- i. Australia. Tasmania e Nuova Zelanda colla Nuova Guinea, Gilolo e Molucche verso Ponente, le Salomone, le Nuove Ebridi e la Nuova Caledonia verso Levante.
- l. Regione Artica: Groenlandia e l'area a Nord del Circolo Polare, ovvero a Nord delle coste dell' America continentale, dell' Asia e dell' Europa.
- l. L' Atlantico e le sue Isole dal Circolo Polare Artico alla Lat. di 45° S., limitato nella sua parte meridionale oltre la costa Africana dal 20° E. da Greenwich, ad Est; e dalla costa dell' America meridionale ad Ovest.
- m. L' Oceano Indiano e le sue Isole, limitato a sud dal 45° di Lat. S., a Ponente del meridiano 20° E. di Greenwich; a Levante dalla costa dell' Australia e dal 147° E. da Greenwich.
- n. Il Pacifico e le sue Isole dal Circolo Polare Artico alla Lat. di 45° S., e tra il 147° meridiano E. da Greenwich e le coste dell' America meridionale.
- o. Regione Antartica: cioè l'area meridionale limitata dal 45° S., eccetto le Isole Falkland e le parti meridionali dell' America del Sud e della Nuova Zelanda; comprendendovi però le isole di Nuova Amsterdam e S. Paolo.

N.B.—Come regola generale, le isole lontane più di 100 miglia inglesi (160 chilometri) dal continente devono essere classificate come oceaniche, salvo speciali eccezioni.

2.—SUDDIVISIONI.

d. EUROPA E ISOLE DEL MEDITERRANEO.

- da.* Scandinavia : Svezia, Norvegia, Danimarca, Islanda, Fär Öer
- db.* Russia Europea.
- dc.* Impero Germanica.
- dd.* Olanda ; Belgio ; Lussemburgo.
- de.* Isole Britanniche.
- df.* Francia e Corsica.
- dg.* Spagna e Portogallo.
- dh.* Italia : Sicilia e Sardegna.
- di.* Svizzera.
- dk.* Austria-Ungheria (comprese Bosnia ed Erzegovina).
- dl.* Penisola, Balcanica (Turchia Europea, Rumania, Bulgaria, Serbia, Montenegro e Grecia).
- dm.* Mediterraneo e Isole (salvo la Sicilia, la Sardegna e la Corsica).
- dn.* Mar Nero.
- do.* Il Baltico e le sue Isole.

e. ASIA E ARCIPELAGO MALESE.

- ea.* Russia Asiatica.
- eb.* Cina e dipendenze : Tibet ; Corea.
- ec.* Isole del Giappone ; Formosa.
- ed.* Coccincina : Tonchino, Annam.
- ee.* Siam.
- ef.* India Britannica : Himalaya ; Birmania ; Ceylon.
- eg.* Penisola Malese dall' Istmo di Kra e Arcipelago Malese fino alla linea, di Wallace, comprendendovi Celebes e Timor colle Filippine e il Mar della Cina.
- eh.* Persia ; Afghanistan ; Belucistan.
- ei.* Turchia Asiatica ; Arabia.
- ek.* Il Caspio.
- el.* Golfo Persica.

f. AFRICA E MADAGASCAR.

- fa.* Stati Mediterranei—Marocco, Algeri, Tunisi, Tripoli.
- fb.* Africa del N.E. ; Egitto e Vallata del Nilo fino al 10° di Lat. N. ; Abissinia ; Coste dell' Africa sul Mar Rosso.
- fc.* Sahara e Sudan Francese ; Darfur, ecc.
- fd.* Africa occidentale dal Marocco al Congo.
- fe.* Stato del Congo e Angola.
- ff.* Africa orientale dal limite indicato in *fb* al Zambesi ; Socotra.
- fg.* Africa australe dal Zambesi e dal confine tra l' Africa Portoghese e l' Africa Germanica del S.W.
- fh.* Madagascar e Gruppo delle Comoro.
- fi.* Il Mar Rosso e le sue Isole.

g. AMERICA SETTENTRIONALE.

- ga. Alaska.
- gb. Il Canada in generale.
- gc. Dominio del Canada occidentale (Yukon, Columbia Britannica, Mackenzie, Athabasca, Alberta, Saskatchewan, Assiniboia).
- gd. Dominio del Canada orientale; Terranova.
- ge. I Laghi Laurenziana.
- gf. Gli Stati Uniti in generale.
- gg. Stati Uniti del Nord-Est, ad E. del Mississippi (Maine, Vermont, New Hampshire, New York, Massachusetts, Connecticut, Rhode Island, Pennsylvania, New Jersey, Ohio, Michigan, Wisconsin, Illinois, Indiana).
- gh. Stati Uniti del Sud-Est, ad E. del Mississippi.
- gi. Stati Uniti occidentali, ad W. del Mississippi.

h. AMERICA CENTRALE E MERIDIONALE E INDIE OCCIDENTALI.

- ha. Messico.
- hb. America Centrale; Guatemala; Honduras Honduras Britannico; Salvador; Nicaragua; Costa Rica.
- hc. Indie occidentali; Mar dei Caribi; Golfo del Messico.
- hd. Guaiana—Britannica, Olandese e Francese; Venezuela; Trinidad.
- he. Columbia; Ecuador.
- hf. Perù.
- hg. Bolivia.
- hh. Brasile.
- hi. Argentina; Uruguay e Paraguay.
- hk. Cile.
- hl. Terra del Fuoco e Isole vicine; Isole Falkland.
- hm. Le Ande.

i. AUSTRALIA E OCEANIA.

- ia. Nuova Guinea colle Isole dalla linea di Wallace, comprendendovi Gilolo (Halmahera) Amboina, Seram.
- ib. Arcipelago di Bismarck (Nuova Britannia. ecc., fino alle Solomone inclusivamente).
- ic. Australia in generale.
- id. Queensland.
- ie. Nuova Galles del Sud.
- if. Victoria.
- ig. Australia meridionale.
- ih. Australia occidentale.
- ii. Tasmania.
- ik. Nuova Zelanda.
- il. Nuova Caledonia, Nuove Ebridi, e Isole Loyalty.

k. REGIONE ARTICA.

- ka. Oceano Artico.
- kb. Groenlandia.
- kc. Arcipelago Nord Americano.
- kd. Isole a N. dell' Europa e dell' Asia.

l. OCEANO ATLANTICO.

- la. Oceano Atlantico settentrionale e sue Isole, non indicate altrove.
- lb. Azorre; Canarie; Madera; Isole del Capo Verde.
- lc. Atlantico meridionale e sue Isole.

m. OCEANO INDIANO.

- ma. Oceano e Isole a Nord dell' Equatore.
- mb. Oceano e Isole a Sud dell' Equatore, comprendendovi le Mascarene, Amsterdam e S. Paolo.

n. OCEANO PACIFICO.

- na. Pacifico del Nord (a N. dell' Equatore).
- nb. Pacifico del Sud (a S. dell' Equatore).
- nc. Mar di Behring e sue Isole (Aleutine, ecc.).
- nd. Isole Sandwich e Gruppi sparsi a N. dell' Equatore e ad E. del 180°.
- ne. Isole dei Ladroni, Pelew, Caroline e Marshall, con altre Isole a N. dell' Equatore e ad ovest del 180°.
- nf. Isole Figi, degli Amici, Samoa, Ellice, Fenice, ecc., ad ovest del 160° W. di Greenwich.
- ng. Isole Galapagos.
- nh. Isole della Società, Arcipelago di Low, Marchesi e altre Isole del Pacifico meridionale, ad Est del meridiano 160° W. da Greenwich.

o. REGIONE ANTARTICA.

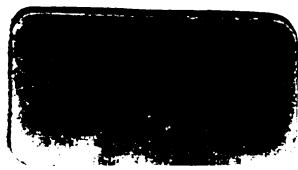
- oa. Regione antartica in generale.
- ob. Georgia australe, Gruppo delle Sandwich e altre Isole a Sud dell' Atlantico meridionale.
- oc. Isole del Principe Edoardo, Crozets, Kerguelen e altre Isole a Sud dell' Oceano Indiano.
- od. Isole a Sud e a Sud-Est della Nuova Zelanda e Regione a Sud del Pacifico.







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